

## Supplementary Information

### Mechanistic Insights into SARS-CoV-2 Spike Protein Induction of the Chemokine CXCL10

Davoud Ghazanfari<sup>a</sup>, Maria Cecilia Courreges<sup>b</sup>, Lydia E. Belinski<sup>a,c</sup>, Michael J. Hogrell<sup>a,c</sup>, Jacob Lloyd<sup>a</sup>, Stephen C. Bergmeier<sup>c,d</sup>, Kelly D. McCall<sup>b,c,e,f,g,h</sup>, \*Douglas J. Goetz<sup>a,c</sup>

<sup>a</sup>Department of Chemical and Biomolecular Engineering, Ohio University, Athens, OH 45701, USA

<sup>b</sup>Department of Specialty Medicine, Ohio University, Athens, OH 45701, USA

<sup>c</sup>Biomedical Engineering Program, Ohio University, Athens, OH 45701, USA

<sup>d</sup>Department of Chemistry and Biochemistry, Ohio University, Athens, OH 45701, USA

<sup>e</sup>The Diabetes Institute, Ohio University, Athens, OH 45701, USA

<sup>f</sup>Molecular and Cellular Biology Program, Ohio University College of Arts & Sciences, Athens OH 45701, USA

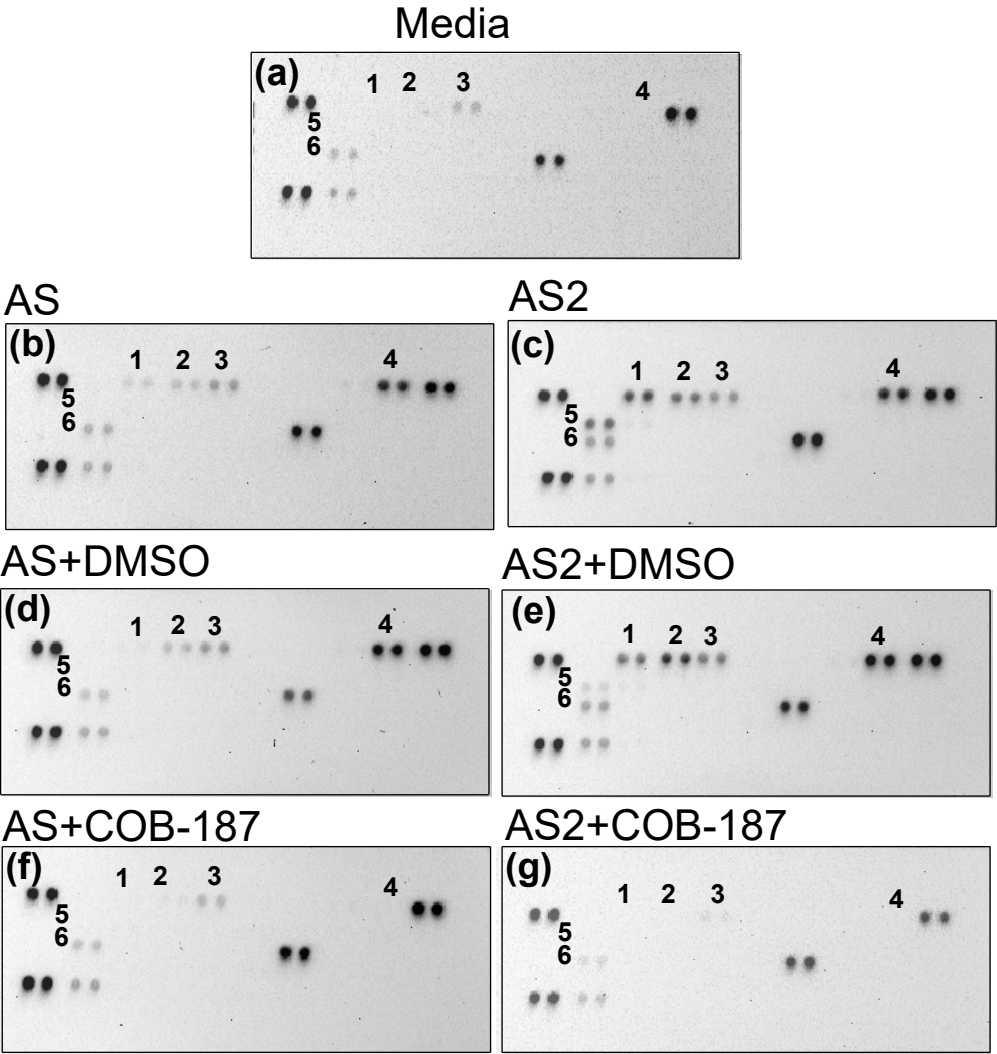
<sup>g</sup>Department of Biological Sciences, Ohio University College of Arts & Sciences, Athens, OH, 45701, USA

<sup>h</sup>Department of Biomedical Sciences, Ohio University Heritage College of Osteopathic Medicine, Athens, OH 45701, USA

\*Corresponding author: Douglas J. Goetz<sup>a,c</sup>

**Email:** [goetzd@ohio.edu](mailto:goetzd@ohio.edu)

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 Supplementary Figure S1.



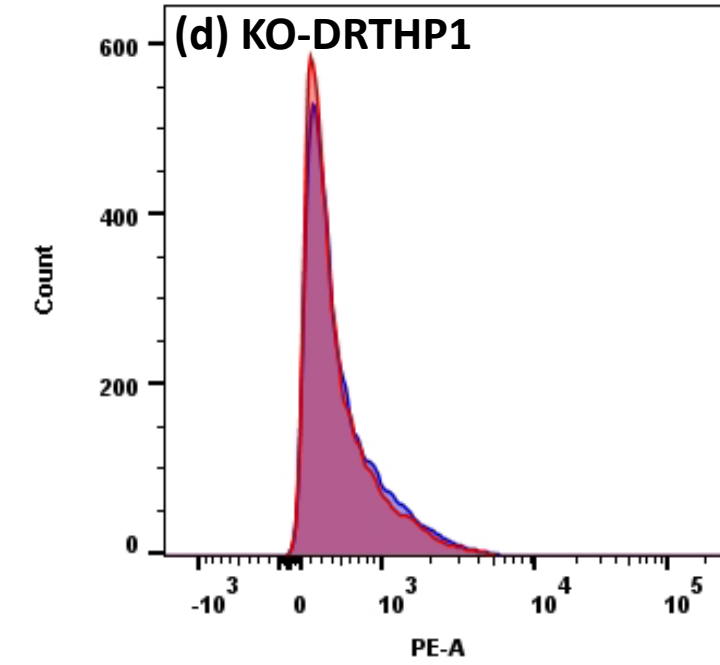
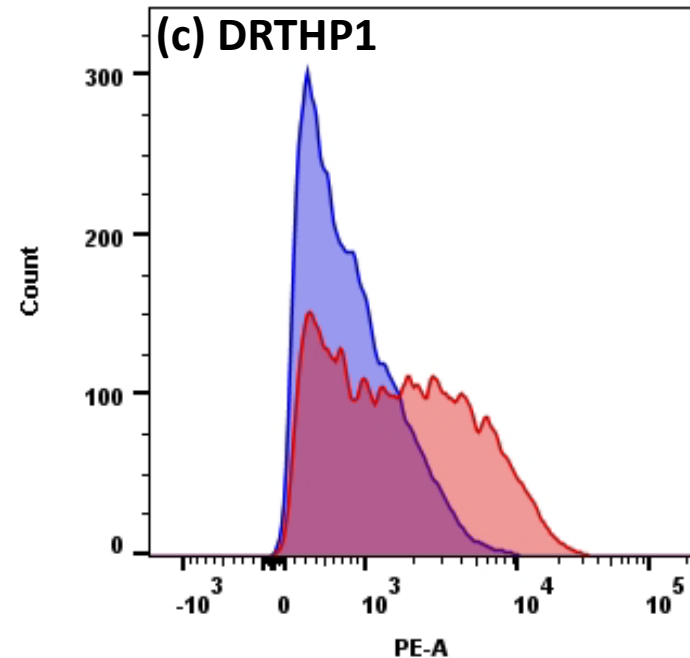
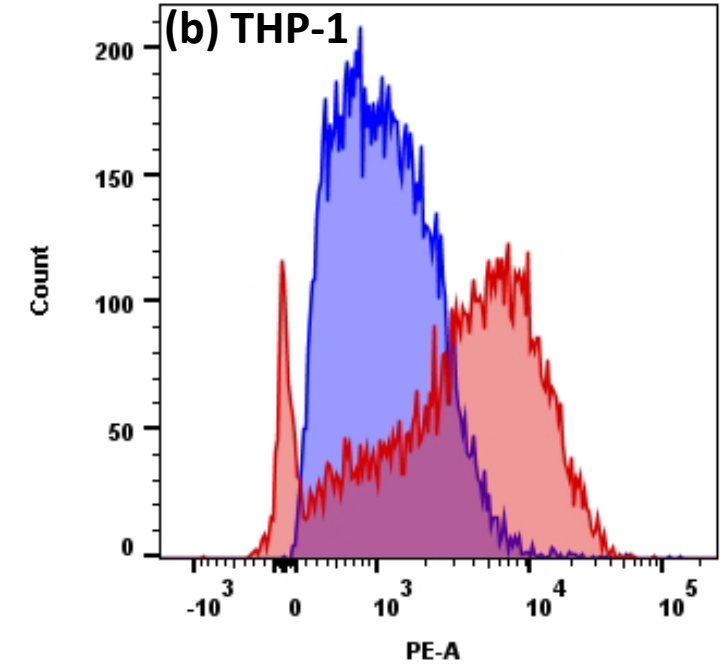
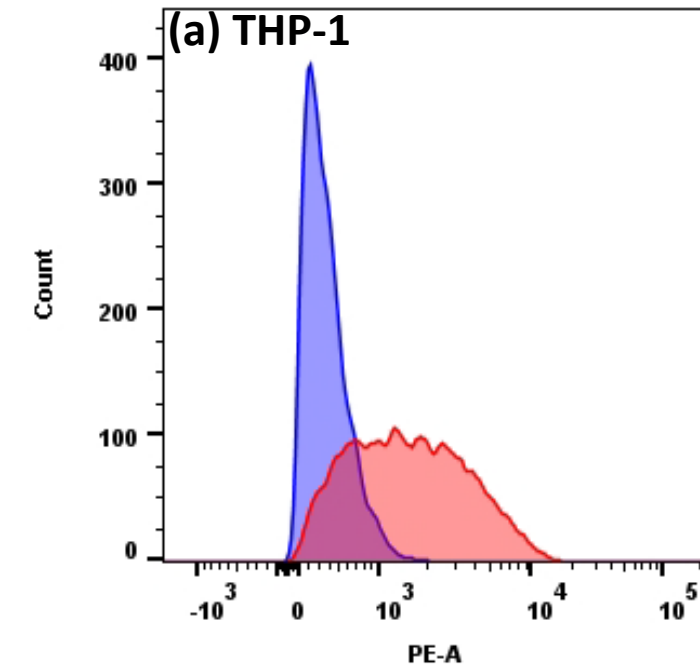
Map of proteins detected

| Coordinate | Target                    |
|------------|---------------------------|
| 1          | CCL2/MCP-1                |
| 2          | CCL3/CCL4/MIP-1alpha/beta |
| 3          | CCL5/RANTES               |
| 4          | CXCL10/IP-10              |
| 5          | CXCL11/I-TAC              |
| 6          | IL-1ra/IL-1F3             |

**Figure S1. S and S2 treatment increase CXCL10 protein levels and this increase is attenuated by COB-187.** This figure is a replicate experiment of the representative figure presented in Fig. 1 of the main text. Protein arrays exposed to supernatants from THP-1 macrophages treated with AS and AS2 proteins +/- COB-187 revealed: supernatants from untreated THP-1 macrophages had little, if any, CXCL10 (location 4, panel a); AS or AS2 protein alone and in the presence of 1% DMSO (carrier control for COB-187) increased CXCL10 protein levels (location 4 panels b,c,d,e); COB-187 appeared to abolish the AS- and AS2-induced increase in CXCL10 protein levels (location 4 panels f,g). Note that AS2 appeared to increase levels of 3 other proteins (locations 1,2,3; panels c) that were dramatically reduced by COB-187 (locations 1,2,3; panel g) but unaffected by 1% DMSO (locations 1,2,3; panel e). The map provides the correspondence between the number on the array and the cytokine present at that location. Each cytokine is in duplicate (two dots per location). The two dark pairs of dots on the left side of each array and the dark pair of dots on the right side of the array are positive controls.

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Supplementary Figure S2.

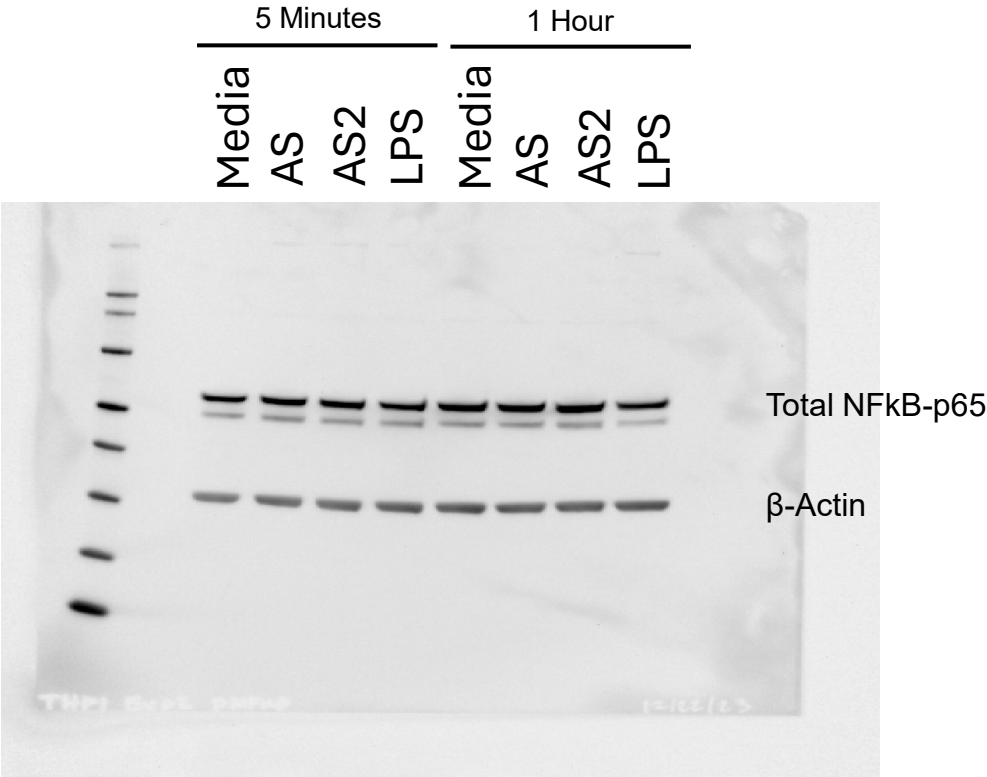
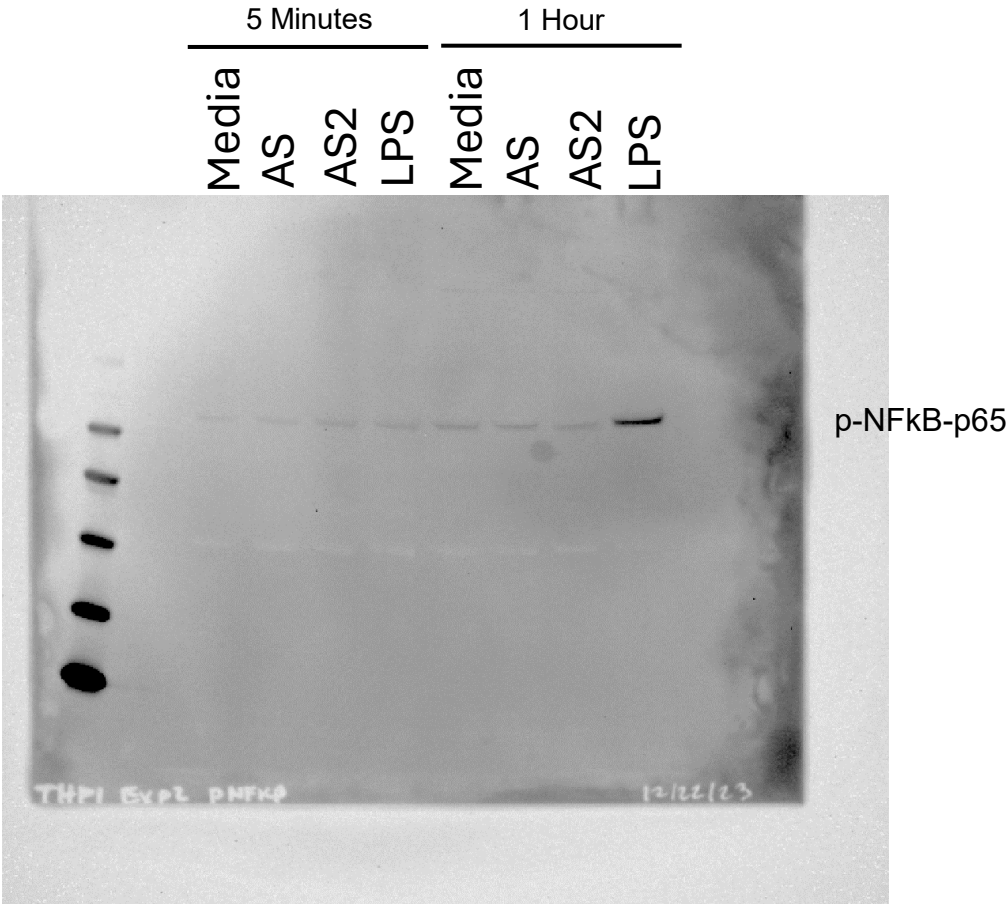
**Figure S2. THP-1 and DRTHP1, but not KO-DRTHP1, macrophages have surface expressed TLR2 protein.** Further replicates of the representative data presented in Figs. 3 of the main text. Flow cytometric analysis revealed that a mAb to TLR2 bound to THP-1 **(a,b)** and DRTHP1 **(c)** macrophages (red histograms) to a greater extent than an isotype matched control (blue histograms) suggesting that these cells express surface TLR2 protein. **(d)** Flow cytometric analysis revealed that a mAb to TLR2 did not bind to KO-DRTHP1 macrophages (red histogram) to a greater extent than an isotype matched control (blue histogram) suggesting that KO-DRTHP1 macrophages do not express surface TLR2 protein.



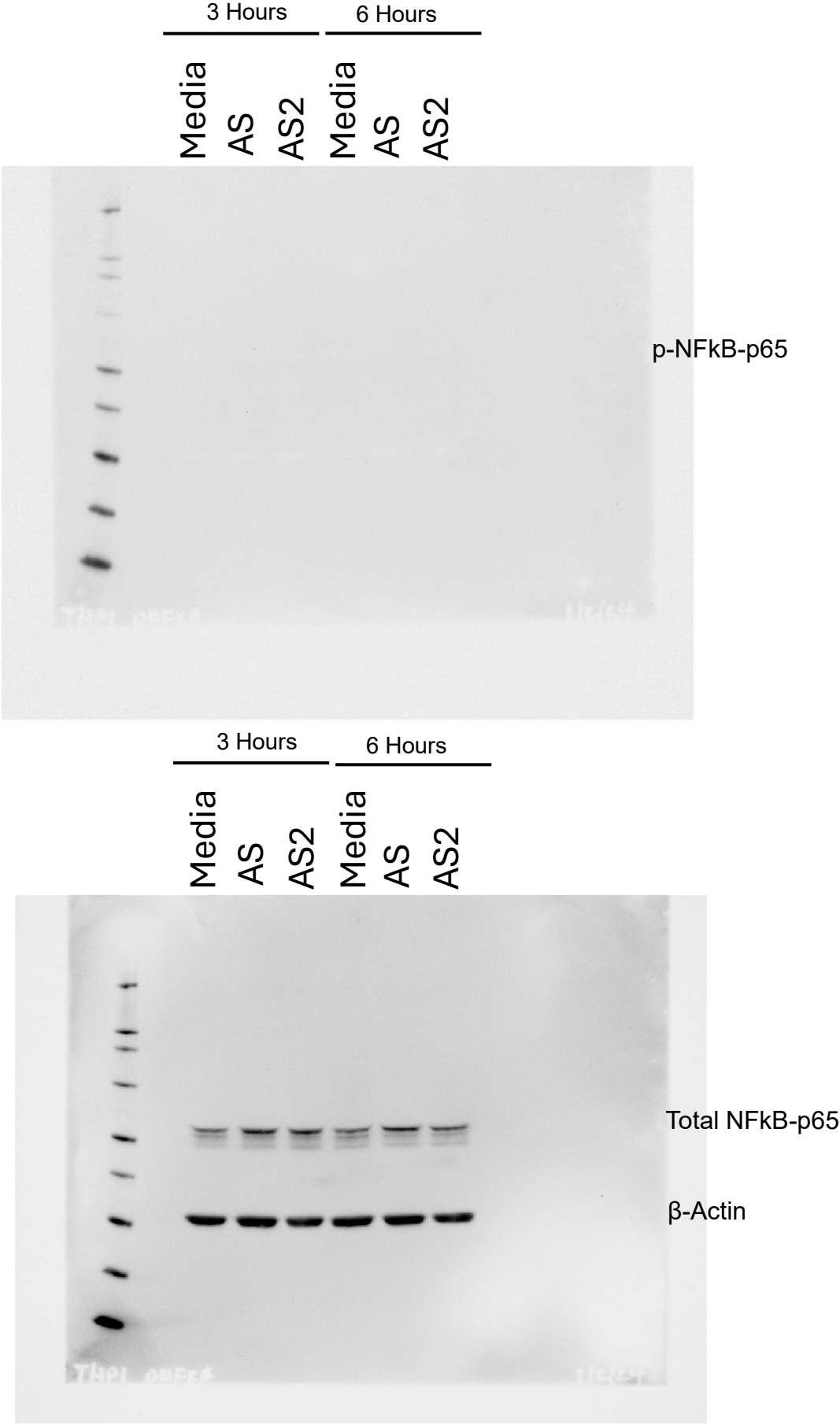
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Supplementary Figure S3.

**Figure S3. AS and AS2 do not appear to activate NF- $\kappa$ B in THP-1 macrophages.**  
The following two pages contain the original blots from which Figs. 6c and 6d were generated.

**Fig. 6c. Same blot, stripped and re-probed for total NFkB-p65 and β-Actin**



**Fig. 6d. Same blot, stripped and re-probed for total NFkB-p65 and  $\beta$ -Actin**



**Supplementary Table S1.** Replicate experiments for Fig. 4. Mean and SD determined from duplicates for each condition within a replicate. Compared to media control via t-test: \*p < 0.025; \*\*p < 0.01; and \*\*\*p < 0.001. Threshold for significant difference is p < 0.05 and p < 0.025 without and with Bonferroni correction, respectively. AS and AS2 were at 25 nM. Replicate 1 from each set is presented in Fig. 4.

| Figure | Rep | Treatment | Cell Type | Assay | Mean | SD    | Significance Without Correction | Significance with Bonferroni Correction |
|--------|-----|-----------|-----------|-------|------|-------|---------------------------------|-----------------------------------------|
| 4a     | 1   | Media     | DRTHP1    | ELISA | 0.12 | 0.020 | -                               | -                                       |
| 4a     | 1   | AS        | DRTHP1    | ELISA | 2.01 | 0.244 | **                              | **                                      |
| 4a     | 1   | AS2       | DRTHP1    | ELISA | 2.07 | 0.216 | **                              | **                                      |
| 4a     | 2   | Media     | DRTHP1    | ELISA | 0.04 | 0.004 | -                               | -                                       |
| 4a     | 2   | AS        | DRTHP1    | ELISA | 0.52 | 0.012 | ***                             | ***                                     |
| 4a     | 2   | AS2       | DRTHP1    | ELISA | 0.51 | 0.018 | ***                             | ***                                     |
| 4a     | 3   | Media     | DRTHP1    | ELISA | 0.14 | 0.008 | -                               | -                                       |
| 4a     | 3   | AS        | DRTHP1    | ELISA | 2.36 | 0.040 | ***                             | ***                                     |
| 4a     | 3   | AS2       | DRTHP1    | ELISA | 2.41 | 0.099 | ***                             | ***                                     |
| 4b     | 1   | Media     | KO-DRTHP1 | ELISA | 0.13 | 0.005 | -                               | -                                       |
| 4b     | 1   | AS        | KO-DRTHP1 | ELISA | 1.83 | 0.271 | *                               | *                                       |
| 4b     | 1   | AS2       | KO-DRTHP1 | ELISA | 2.18 | 0.132 | **                              | **                                      |
| 4b     | 2   | Media     | KO-DRTHP1 | ELISA | 0.04 | 0.000 | -                               | -                                       |
| 4b     | 2   | AS        | KO-DRTHP1 | ELISA | 0.44 | 0.022 | **                              | **                                      |
| 4b     | 2   | AS2       | KO-DRTHP1 | ELISA | 0.50 | 0.011 | ***                             | ***                                     |
| 4b     | 3   | Media     | KO-DRTHP1 | ELISA | 0.14 | 0.003 | -                               | -                                       |
| 4b     | 3   | AS        | KO-DRTHP1 | ELISA | 2.25 | 0.107 | **                              | **                                      |
| 4b     | 3   | AS2       | KO-DRTHP1 | ELISA | 2.50 | 0.052 | ***                             | ***                                     |

**Supplementary Table S2.** Replicate experiments for Fig. 5. Mean and SD were determined from duplicates for each condition within each replicate. Compared to media control via t-test: NS indicates not significant; LTC indicates lower than control; #p<0.05; \*\*p< 0.01; and \*\*\*p<0.001. Threshold for significant difference is p<0.05 and p<0.025 without and with Bonferroni correction, respectively. A Bonferroni correction is not needed for Figs. 5c and 5d since only a single comparison was made. AS and AS2 were at 25 nM. Pam3CSK4 was at 1000 ng/ml. Replicate 1 from each set is presented in Fig. 5.

| Figure | Rep | Treatment | Cell Type | Assay | Mean | SD    | Significance without Correction | Significance with Bonferroni Correction |
|--------|-----|-----------|-----------|-------|------|-------|---------------------------------|-----------------------------------------|
| 5a     | 1   | Media     | DRTHP1    | NF-kB | 1.21 | 0.059 | -                               | -                                       |
| 5a     | 1   | AS        | DRTHP1    | NF-kB | 1.25 | 0.021 | NS                              | NS                                      |
| 5a     | 1   | AS2       | DRTHP1    | NF-kB | 1.52 | 0.200 | NS                              | NS                                      |
| 5a     | 2   | Media     | DRTHP1    | NF-kB | 1.78 | 0.025 | -                               | -                                       |
| 5a     | 2   | AS        | DRTHP1    | NF-kB | 1.86 | 0.108 | NS                              | NS                                      |
| 5a     | 2   | AS2       | DRTHP1    | NF-kB | 1.87 | 0.121 | NS                              | NS                                      |
| 5a     | 3   | Media     | DRTHP1    | NF-kB | 1.33 | 0.015 | -                               | -                                       |
| 5a     | 3   | AS        | DRTHP1    | NF-kB | 1.39 | 0.141 | NS                              | NS                                      |
| 5a     | 3   | AS2       | DRTHP1    | NF-kB | 1.21 | 0.095 | NS                              | NS                                      |
| 5a     | 4   | Media     | DRTHP1    | NF-kB | 1.88 | 0.003 | -                               | -                                       |
| 5a     | 4   | AS        | DRTHP1    | NF-kB | 1.66 | 0.022 | **LTC                           | **LTC                                   |
| 5a     | 4   | AS2       | DRTHP1    | NF-kB | 1.76 | 0.039 | #LTC                            | NS                                      |
| 5a     | 5   | Media     | DRTHP1    | NF-kB | 1.10 | 0.008 | -                               | -                                       |
| 5a     | 5   | AS        | DRTHP1    | NF-kB | 1.10 | 0.006 | NS                              | NS                                      |
| 5a     | 5   | AS2       | DRTHP1    | NF-kB | 1.16 | 0.029 | NS                              | NS                                      |
| 5a     | 6   | Media     | DRTHP1    | NF-kB | 1.81 | 0.037 | -                               | -                                       |
| 5a     | 6   | AS        | DRTHP1    | NF-kB | 1.84 | 0.045 | NS                              | NS                                      |
| 5a     | 6   | AS2       | DRTHP1    | NF-kB | 2.00 | 0.158 | NS                              | NS                                      |
| 5b     | 1   | Media     | KO-DRTHP1 | NF-kB | 1.11 | 0.083 | -                               | -                                       |
| 5b     | 1   | AS        | KO-DRTHP1 | NF-kB | 0.88 | 0.095 | NS                              | NS                                      |
| 5b     | 1   | AS2       | KO-DRTHP1 | NF-kB | 1.07 | 0.025 | NS                              | NS                                      |
| 5b     | 2   | Media     | KO-DRTHP1 | NF-kB | 1.93 | 0.056 | -                               | -                                       |
| 5b     | 2   | AS        | KO-DRTHP1 | NF-kB | 2.08 | 0.259 | NS                              | NS                                      |
| 5b     | 2   | AS2       | KO-DRTHP1 | NF-kB | 1.83 | 1.835 | NS                              | NS                                      |
| 5b     | 3   | Media     | KO-DRTHP1 | NF-kB | 0.85 | 0.009 | -                               | -                                       |
| 5b     | 3   | AS        | KO-DRTHP1 | NF-kB | 0.96 | 0.126 | NS                              | NS                                      |
| 5b     | 3   | AS2       | KO-DRTHP1 | NF-kB | 0.78 | 0.071 | NS                              | NS                                      |
| 5c     | 1   | Media     | DRTHP1    | NF-kB | 1.11 | 0.003 | -                               | -                                       |
| 5c     | 1   | Pam3CSK4  | DRTHP1    | NF-kB | 1.91 | 0.064 | **                              | -                                       |
| 5c     | 2   | Media     | DRTHP1    | NF-kB | 1.85 | 0.004 | -                               | -                                       |
| 5c     | 2   | Pam3CSK4  | DRTHP1    | NF-kB | 2.55 | 0.066 | **                              | -                                       |
| 5c     | 3   | Media     | DRTHP1    | NF-kB | 1.71 | 0.017 | -                               | -                                       |
| 5c     | 3   | Pam3CSK4  | DRTHP1    | NF-kB | 2.41 | 0.019 | ***                             | -                                       |
| 5d     | 1   | Media     | KO-DRTHP1 | NF-kB | 1.17 | 0.188 | -                               | -                                       |
| 5d     | 1   | Pam3CSK4  | KO-DRTHP1 | NF-kB | 1.13 | 0.011 | NS                              | -                                       |
| 5d     | 2   | Media     | KO-DRTHP1 | NF-kB | 1.82 | 0.005 | -                               | -                                       |
| 5d     | 2   | Pam3CSK4  | KO-DRTHP1 | NF-kB | 1.95 | 0.206 | NS                              | -                                       |

**Supplementary Table S3.** Replicate experiments for Fig. 6 a,b. Mean and SD determined from duplicates for each condition within a replicate. For 6a: Compared to DMSO via two sample t-test. For 6b, compared to 100% via one sample t-test. NS indicates not significant; #p<0.05. Threshold for significant difference is p<0.05. A Bonferroni correction was not used for the one sample t-test in 6b. AS and AS2 were at 25 nM. Replicate 1 is presented in Fig. 6a.

| Figure | Rep | Treatment    | Cell Type | Assay | Mean                       | SD    | Significance Without Correction | Significance with Bonferroni Correction |
|--------|-----|--------------|-----------|-------|----------------------------|-------|---------------------------------|-----------------------------------------|
| 6a     | 1   | AS + DMSO    | WT THP-1  | ELISA | 3.02                       | 0.037 | -                               | -                                       |
| 6a     | 1   | AS + SC-514  | WT THP-1  | ELISA | 2.13                       | 0.495 | NS                              | NS                                      |
| 6a     | 1   | AS2 + DMSO   | WT THP-1  | ELISA | 2.59                       | 0.448 | -                               | -                                       |
| 6a     | 1   | AS2 + SC-514 | WT THP-1  | ELISA | 2.28                       | 0.387 | NS                              | NS                                      |
| 6a     | 2   | AS + DMSO    | WT THP-1  | ELISA | 1.66                       | 0.284 | -                               | -                                       |
| 6a     | 2   | AS + SC-514  | WT THP-1  | ELISA | 1.28                       | 0.123 | NS                              | NS                                      |
| 6a     | 2   | AS2 + DMSO   | WT THP-1  | ELISA | 1.75                       | 0.038 | -                               | -                                       |
| 6a     | 2   | AS2 + SC-514 | WT THP-1  | ELISA | 1.87                       | 0.019 | NS                              | NS                                      |
| 6a     | 3   | AS + DMSO    | WT THP-1  | ELISA | 1.70                       | 0.409 | -                               | -                                       |
| 6a     | 3   | AS + SC-514  | WT THP-1  | ELISA | 1.09                       | 0.096 | NS                              | NS                                      |
| 6a     | 3   | AS2 + DMSO   | WT THP-1  | ELISA | 2.49                       | 0.153 | -                               | -                                       |
| 6a     | 3   | AS2 + SC-514 | WT THP-1  | ELISA | 2.66                       | 0.079 | NS                              | NS                                      |
| Figure | Rep | Treatment    | Cell Type | Assay | % relative to DMSO control | SD    | Significance Without Correction | Significance with Bonferroni Correction |
| 6b     | 1   | AS + SC-514  | WT THP-1  | ELISA | 70.4                       | -     | -                               | -                                       |
| 6b     | 1   | AS2 + SC-514 | WT THP-1  | ELISA | 88.2                       | -     | -                               | -                                       |
| 6b     | 2   | AS + SC-514  | WT THP-1  | ELISA | 77.2                       | -     | -                               | -                                       |
| 6b     | 2   | AS2 + SC-514 | WT THP-1  | ELISA | 107.0                      | -     | -                               | -                                       |
| 6b     | 3   | AS + SC-514  | WT THP-1  | ELISA | 64.5                       | -     | -                               | -                                       |
| 6b     | 3   | AS2 + SC-514 | WT THP-1  | ELISA | 106.8                      | -     | -                               | -                                       |
| 6b     | Ave | AS + SC-514  | WT THP-1  | ELISA | 70.7                       | 6.37  | #                               | -                                       |
| 6b     | Ave | AS2 + SC-514 | WT THP-1  | ELISA | 100.7                      | 10.80 | NS                              | -                                       |

**Supplementary Table S4.** Replicate experiments for Fig. 7. Mean and SD were determined from duplicates for each condition within each replicate. Compared to media control via t-test: NS indicates not significant; LTC indicates lower than control: # $p < 0.05$ ; \* $p < 0.025$ ; \*\* $p < 0.01$ ; % $p < 0.0083$  (the cutoff for significance with a Bonferroni correction involving 6 comparisons); and \*\*\* $p < 0.001$ . Threshold for significant difference is  $p < 0.05$  without Bonferroni correction. Threshold for significant difference is  $p < 0.025$  (Figs. 7a,b) and  $p < 0.0083$  (Fig. 7c) with Bonferroni correction. AS and AS2 were at 25 nM. Replicate 1 from each set is presented in Fig. 7. Note that the positive controls (AS, AS2) for the replicates in Fig. 7c provide two additional replicates for 7a.

| Figure | Rep | Treatment      | Cell Type | Assay | Mean  | SD   | Significance without Correction | Significance with Bonferroni Correction |
|--------|-----|----------------|-----------|-------|-------|------|---------------------------------|-----------------------------------------|
| 7a     | 1   | Media          | DRTHP1    | IRF   | 201   | 8    | -                               | -                                       |
| 7a     | 1   | AS             | DRTHP1    | IRF   | 1219  | 155  | *                               | *                                       |
| 7a     | 1   | AS2            | DRTHP1    | IRF   | 1922  | 296  | *                               | *                                       |
| 7a     | 2   | Media          | DRTHP1    | IRF   | 429   | 131  | -                               | -                                       |
| 7a     | 2   | AS             | DRTHP1    | IRF   | 2918  | 145  | **                              | **                                      |
| 7a     | 2   | AS2            | DRTHP1    | IRF   | 6065  | 354  | **                              | **                                      |
| 7a     | 3   | Media          | DRTHP1    | IRF   | 489   | 14   | -                               | -                                       |
| 7a     | 3   | AS             | DRTHP1    | IRF   | 2351  | 372  | *                               | *                                       |
| 7a     | 3   | AS2            | DRTHP1    | IRF   | 11835 | 440  | ***                             | ***                                     |
| 7a     | 4   | Media          | DRTHP1    | IRF   | 403   | 25   | -                               | -                                       |
| 7a     | 4   | AS             | DRTHP1    | IRF   | 2772  | 199  | **                              | **                                      |
| 7a     | 4   | AS2            | DRTHP1    | IRF   | 1218  | 48   | **                              | **                                      |
| 7b     | 1   | Media          | KO-DRTHP1 | IRF   | 344   | 8    | -                               | -                                       |
| 7b     | 1   | AS             | KO-DRTHP1 | IRF   | 604   | 28   | **                              | **                                      |
| 7b     | 1   | AS2            | KO-DRTHP1 | IRF   | 2229  | 108  | **                              | **                                      |
| 7b     | 2   | Media          | KO-DRTHP1 | IRF   | 777   | 125  | -                               | -                                       |
| 7b     | 2   | AS             | KO-DRTHP1 | IRF   | 1969  | 255  | #                               | NS                                      |
| 7b     | 2   | AS2            | KO-DRTHP1 | IRF   | 4025  | 1301 | NS                              | NS                                      |
| 7b     | 3   | Media          | KO-DRTHP1 | IRF   | 562   | 13   | -                               | -                                       |
| 7b     | 3   | AS             | KO-DRTHP1 | IRF   | 3974  | 40   | ***                             | ***                                     |
| 7b     | 3   | AS2            | KO-DRTHP1 | IRF   | 9327  | 294  | ***                             | ***                                     |
| 7c     | 1   | Media          | DRTHP1    | IRF   | 764   | 27   | -                               | -                                       |
| 7c     | 1   | AS             | DRTHP1    | IRF   | 4364  | 24   | ***                             | ***                                     |
| 7c     | 1   | Heat treat AS  | DRTHP1    | IRF   | 477   | 43   | *LTC                            | NS                                      |
| 7c     | 1   | Mutated AS     | DRTHP1    | IRF   | 659   | 15   | *LTC                            | NS                                      |
| 7c     | 1   | AS2            | DRTHP1    | IRF   | 10120 | 545  | %                               | %                                       |
| 7c     | 1   | Heat treat AS2 | DRTHP1    | IRF   | 747   | 1    | NS                              | NS                                      |
| 7c     | 1   | Mutated AS2    | DRTHP1    | IRF   | 607   | 66   | NS                              | NS                                      |
| 7c     | 2   | Media          | DRTHP1    | IRF   | 420   | 33   | -                               | -                                       |
| 7c     | 2   | AS             | DRTHP1    | IRF   | 1396  | 98   | %                               | %                                       |
| 7c     | 2   | Heat treat AS  | DRTHP1    | IRF   | 278   | 71   | NS                              | NS                                      |
| 7c     | 2   | Mutated AS     | DRTHP1    | IRF   | 341   | 15   | NS                              | NS                                      |
| 7c     | 2   | AS2            | DRTHP1    | IRF   | 3134  | 169  | %                               | %                                       |
| 7c     | 2   | Heat treat AS2 | DRTHP1    | IRF   | 335   | 23   | NS                              | NS                                      |
| 7c     | 2   | Mutated AS2    | DRTHP1    | IRF   | 364   | 41   | NS                              | NS                                      |

**Supplementary Table S5.** Replicate experiments for Fig. 8. Mean and SD determined from duplicates for each condition within a replicate; quadruplicates used for RS2 8b, Rep 1. Compared to media matched control for 8a, 8b, 8c via t-test; compared to same condition with PB for 8d via t-test: NS indicates not significant; NP indicates not performed; LTC indicates lower than control; #p<0.05\*\*p< 0.01; and \*\*\*p<0.001. Threshold for significant difference is p<0.05 without Bonferroni correction and p<0.025 with Bonferroni correction. Concentration of spike proteins was 25 nM. Replicate 1 from each set (8a, 8b, 8c) and the 1 EU/ml condition (8d) is presented in Fig. 8.

| Figure | Rep | Treatment                | Cell Type | Assay | Mean | SD    | Significance Without Correction | Significance with Bonferroni Correction |
|--------|-----|--------------------------|-----------|-------|------|-------|---------------------------------|-----------------------------------------|
| 8a     | 1   | AS                       | PBMCs     | ELISA | 0.84 | 0.070 | **                              | **                                      |
| 8a     | 1   | AS2                      | PBMCs     | ELISA | 1.31 | 0.059 | **                              | **                                      |
| 8a     | 1   | Media                    | PBMCs     | ELISA | 0.06 | 0.000 | -                               | -                                       |
| 8a     | 1   | Heat AS                  | PBMCs     | ELISA | 0.08 | 0.004 | NP                              | NP                                      |
| 8a     | 1   | Heat AS2                 | PBMCs     | ELISA | 0.07 | 0.001 | NP                              | NP                                      |
| 8a     | 1   | Mut AS                   | PBMCs     | ELISA | 0.07 | 0.006 | NP                              | NP                                      |
| 8a     | 1   | Mut AS2                  | PBMCs     | ELISA | 0.06 | 0.000 | NP                              | NP                                      |
| 8a     | 2   | AS                       | PBMCs     | ELISA | 0.63 | 0.057 | **                              | **                                      |
| 8a     | 2   | AS2                      | PBMCs     | ELISA | 1.20 | 0.039 | ***                             | ***                                     |
| 8a     | 2   | Media                    | PBMCs     | ELISA | 0.08 | 0.001 | -                               | -                                       |
| 8a     | 2   | Heat AS                  | PBMCs     | ELISA | 0.05 | 0.003 | NP                              | NP                                      |
| 8a     | 2   | Heat AS2                 | PBMCs     | ELISA | 0.05 | 0.004 | NP                              | NP                                      |
| 8a     | 2   | Mut AS                   | PBMCs     | ELISA | 0.06 | 0.002 | NP                              | NP                                      |
| 8a     | 2   | Mut AS2                  | PBMCs     | ELISA | 0.18 | 0.011 | NP                              | NP                                      |
| 8b     | 1   | RS2                      | WT THP-1  | ELISA | 1.61 | 0.315 | **                              | **                                      |
| 8b     | 1   | BS2                      | WT THP-1  | ELISA | 0.07 | 0.004 | NS                              | NS                                      |
| 8b     | 1   | Media                    | WT THP-1  | ELISA | 0.08 | 0.005 | -                               | -                                       |
| 8b     | 1   | RS2                      | PBMCs     | ELISA | 0.24 | 0.095 | NS                              | NS                                      |
| 8b     | 1   | BS2                      | PBMCs     | ELISA | 0.09 | 0.008 | NS                              | NS                                      |
| 8b     | 1   | Media                    | PBMCs     | ELISA | 0.10 | 0.007 | -                               | -                                       |
| 8b     | 2   | RS2                      | WT THP-1  | ELISA | 1.11 | 0.042 | ***                             | ***                                     |
| 8b     | 2   | BS2                      | WT THP-1  | ELISA | 0.07 | 0.005 | NS                              | NS                                      |
| 8b     | 2   | Media                    | WT THP-1  | ELISA | 0.08 | 0.002 | -                               | -                                       |
| 8b     | 2   | RS2                      | PBMCs     | ELISA | 0.24 | 0.196 | NS                              | NS                                      |
| 8b     | 2   | BS2                      | PBMCs     | ELISA | 0.15 | 0.006 | **                              | **                                      |
| 8b     | 2   | Media                    | PBMCs     | ELISA | 0.07 | 0.008 | -                               | -                                       |
| 8c     | 1   | LPS - PB                 | WT THP-1  | ELISA | 1.79 | 0.101 | **                              | **                                      |
| 8c     | 1   | LPS + PB                 | WT THP-1  | ELISA | 0.10 | 0.001 | #LTC                            | NS                                      |
| 8c     | 1   | Media                    | WT THP-1  | ELISA | 0.11 | 0.002 | -                               | -                                       |
| 8c     | 1   | Media - PB               | WT THP-1  | ELISA | 0.07 | 0.002 | -                               | -                                       |
| 8c     | 1   | LPS - PB                 | PBMCs     | ELISA | 0.05 | 0.002 | NS                              | NS                                      |
| 8c     | 1   | LPS + PB                 | PBMCs     | ELISA | 0.05 | 0.001 | NS                              | NS                                      |
| 8c     | 1   | Media                    | PBMCs     | ELISA | 0.05 | 0.004 | -                               | -                                       |
| 8c     | 1   | Media - PB               | PBMCs     | ELISA | 0.06 | 0.004 | -                               | -                                       |
| 8c     | 2   | LPS - PB                 | WT THP-1  | ELISA | 1.49 | 0.093 | **                              | **                                      |
| 8c     | 2   | LPS + PB                 | WT THP-1  | ELISA | 0.07 | 0.005 | NS                              | NS                                      |
| 8c     | 2   | Media                    | WT THP-1  | ELISA | 0.06 | 0.002 | -                               | -                                       |
| 8c     | 2   | Media - PB               | WT THP-1  | ELISA | 0.07 | 0.007 | -                               | -                                       |
| 8c     | 2   | LPS - PB                 | PBMCs     | ELISA | 0.05 | 0.001 | NS                              | NS                                      |
| 8c     | 2   | LPS + PB                 | PBMCs     | ELISA | 0.05 | 0.000 | NS                              | NS                                      |
| 8c     | 2   | Media                    | PBMCs     | ELISA | 0.05 | 0.001 | -                               | -                                       |
| 8c     | 2   | Media - PB               | PBMCs     | ELISA | 0.05 | 0.001 | -                               | -                                       |
| 8d     | 1   | BS2 + 1 EU/ml LPS - PB   | WT THP-1  | ELISA | 2.06 | 0.096 | **                              | **                                      |
| 8d     | 1   | BS2+1 EU /ml LPS+PB      | WT THP-1  | ELISA | 0.11 | 0.001 | -                               | -                                       |
| 8d     | 1   | 1 EU/ml LPS - PB         | WT THP-1  | ELISA | 2.13 | 0.062 | ***                             | ***                                     |
| 8d     | 1   | 1 EU/ml LPS + PB         | WT THP-1  | ELISA | 0.12 | 0.004 | -                               | -                                       |
| 8d     | 1   | BS2                      | WT THP-1  | ELISA | 0.07 | 0.000 | -                               | -                                       |
| 8d     | 1   | Media - PB               | WT THP-1  | ELISA | 0.07 | 0.001 | -                               | -                                       |
| 8d     | 1   | Media                    | WT THP-1  | ELISA | 0.08 | 0.001 | -                               | -                                       |
| 8d     | 1   | BS2 + 0.5 EU/ml LPS - PB | WT THP-1  | ELISA | 2.05 | 0.068 | ***                             | ***                                     |
| 8d     | 1   | BS2+0.5 EU /ml LPS+PB    | WT THP-1  | ELISA | 0.08 | 0.000 | -                               | -                                       |
| 8d     | 1   | 0.5 EU/ml LPS - PB       | WT THP-1  | ELISA | 2.14 | 0.074 | ***                             | ***                                     |
| 8d     | 1   | 0.5 EU/ml LPS + PB       | WT THP-1  | ELISA | 0.12 | 0.000 | -                               | -                                       |