

**Additional file 1: Table S1. Antibodies**

| <i>Antibody</i>       | <i>Coupled to</i> | <i>Dilution</i> | <i>Made in</i>   | <i>Clone</i> | <i>Manufacturer</i> | <i>Function</i>                                                                                              |
|-----------------------|-------------------|-----------------|------------------|--------------|---------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Flow cytometry</b> |                   |                 |                  |              |                     |                                                                                                              |
| CD4                   | AF700             | 1:800           | Rat              | RM4-5        | BD Pharmingen       | TCR complex, binds MHCII                                                                                     |
| CD3ε                  | HV500             | 1:100           | Syrian Hamster   | 500A2        | BD Horizon          | TCR complex, kinase                                                                                          |
| CD25                  | PE-Cy7            | 1:200           | Rat              | PC61         | BD Pharmingen       | IL-2Rα, T cell activation / Treg survival                                                                    |
| DR-D2                 | Purified          | 1:50            | Goat             | Polyclonal   | Abcam               | Dopamine receptor D2                                                                                         |
| DR-D3                 | Purified          | 1:50            | Rabbit           | Polyclonal   | Abcam               | Dopamine receptor D3                                                                                         |
| CD127                 | Biotin            | 1:100           | Rat              | A7R34        | eBioscience         | IL-7Rα, effector/memory T cell                                                                               |
| CD196 (CCR6)          | BV421             | 1:50            | Armenian Hamster | 29-2L17      | Biolegend           | CCR6 Chemokine receptor. Migration & homeostasis of lymphocytes.                                             |
| CD103                 | PerCP-Cy5.5       | 1:100           | Armenian Hamster | 2E7          | BioLegend           | Lectin, tolerance. Treg express high levels. Th cells use it to attach to endothelium and extravasate        |
| CD11b                 | PE-Cy7            | 1:800           | Rat              | M1/70        | BD Pharmingen       | Lectin, binds ICAM-1. When in complex with CD18, forms CR3 (binds C3bi).<br><br>Macrophage/monocyte cells    |
| CD11c                 | AF700             | 1:800           | Armenian Hamster | N418         | BioLegend           | Lectin, When in complex with CD18, forms CR3 (binds C3bi).<br><br>Dendritic & NK cells                       |
| CD54 (ICAM-1)         | APC               | 1:100           | Hamster          | 3E2          | BD Pharmingen       | ICAM-1, binds CD11b/CD18 & CD11c/CD18, involved in MHC-independent responses to weak immunogenic tumor cells |
| CD154 (CD40L)         | Biotin            | 1:50            | Armenian Hamster | MR1          | BD Pharmingen       | CD40 ligand, binds CD40 on B cells for T cell induction of memory T cells                                    |
| CD200R                | PE                | 1:200           | Rat              | OX-110       | Biolegend           | Ox-2R, Suppresses inflammatory reactions on macrophages, Neuron-glia inhibitory interaction                  |

|                             |          |         |        |             |                       |                                                                                                                                         |
|-----------------------------|----------|---------|--------|-------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| MHC II<br>(I-A/I-E)         | eFluo450 | 1:100   | Rat    | M5/114.15.2 | eBioscience           | Antigen presentation, binds CD4/TCR                                                                                                     |
| CD172a                      | FITC     | 1:100   | Rat    | P84         | BD Pharmingen         | Adhesion molecule. Neurons, retina macrophages. Regulates phagocytosis and synaptic activity. Microglia-neuron regulatory interactions. |
| CD4                         | APC-H7   | 1:200   | Rat    | GK1.5       | BD Pharmingen         | TCR complex, binds MHCII                                                                                                                |
| Streptavidin                | QDot605  | 1:200   |        |             |                       | Secondary antibody                                                                                                                      |
| Anti-rabbit IgG             | AF647    | 1:100   | Donkey | n.a.        | Abcam                 | Secondary antibody                                                                                                                      |
| Anti-goat IgG               | FITC     | 1:50    | Donkey | n.a.        | Abcam                 | Secondary antibody                                                                                                                      |
| CD16/CD32                   | Purified | 1:50    | Rat    | 2.4G2       | BD Pharmingen         | Fc block, binds to receptors for IgG                                                                                                    |
| <b>Western blot</b>         |          |         |        |             |                       |                                                                                                                                         |
| Foxp3                       | Purified | 1:50    | Mouse  | 150D        | BioLegend             | Transcription factor specific for Treg                                                                                                  |
| Foxp3                       | Purified | 1:300   | Rabbit | n.s.m.      | Aviva Systems Biology | Transcription factor specific for Treg                                                                                                  |
| ROR $\gamma$ t              | Purified | 1:100   | Mouse  |             | BD Transduction       | Transcription factor specific for Th17 cells                                                                                            |
| Stat3                       | Purified | 1:3000  | Mouse  | 84/Stat3    | BD Transduction       | Transcription factor                                                                                                                    |
| Stat3-pS727                 | Purified | 1:500   | Mouse  | 49/p-Stat3  | BD Transduction       | Phosphorylation due to EGF & IL-6, Binds c-fos promoter                                                                                 |
| Stat5                       | Purified | 1:500   | Mouse  | 89/Stat5    | BD Transduction       | Transcription factor                                                                                                                    |
| Stat5-pY694                 | Purified | 1:50    | Mouse  | 47          | BD Transduction       | Involved in IL-2-induced activation of T cells                                                                                          |
| $\beta$ -actin              | Purified | 1:20000 | Mouse  | AC-15       | Sigma-Aldrich         |                                                                                                                                         |
| Anti-rabbit IgG             | HRP      | 1:2000  | Swine  | polyclonal  | Dako Cytomation       | Secondary antibody                                                                                                                      |
| Anti-mouse IgG              | HRP      | 1:2000  | Rabbit | polyclonal  | DakoCytomation        | Secondary antibody                                                                                                                      |
| <b>Immunohistochemistry</b> |          |         |        |             |                       |                                                                                                                                         |
| a-syn                       | Purified | 1:4000  | Rabbit | n.s.m.      | Abcam                 | Residues 118-123                                                                                                                        |

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|                         |          |                |        |            |                     |                                       |
|-------------------------|----------|----------------|--------|------------|---------------------|---------------------------------------|
| CD11b                   | Purified | 1:200          | Rat    | M1/70.15   | AbD Serotec         | See Flow Cytometry                    |
| CD4                     | Purified | 1:200          | Rat    | GK1.5      | AbD Serotec         | See Flow Cytometry                    |
| MHC II                  |          |                |        |            |                     | See Flow Cytometry                    |
| Anti-mouse IgG          | Biotin   | 1:2000         | Horse  | Polyclonal | Vector Laboratories | Recognized antibodies of mouse origin |
| Anti-rat IgG            | Biotin   | 1:200          | Goat   | Polyclonal | Vector Laboratories | Secondary antibody                    |
| Anti-rabbit IgG         | Biotin   | 1:200          | Donkey | Polyclonal | Vector Laboratories | Secondary antibody                    |
| <b>Anti-a-syn ELISA</b> |          |                |        |            |                     |                                       |
| human-a-syn             | Purified | 1:1000-128.000 | Mouse  | 4B12       | Covance             | For standard curve                    |
| Anti-mouse IgG          | HRP      | 1:2000         | Rabbit | Polyclonal | DAKO                |                                       |

n.s.m. Not supplied by the manufacturer; n.a. Not applicable.

BD Bioscience, Belgium; Dako Cytomation, Glostrup, Denmark; Aviva Biology Systems, San Diego, CA, USA; BioLegend, San Diego, CA, USA; eBioscience, San Diego, CA, USA; Abcam, Cambridge, UK; Vector Laboratories, Burlingame, CA, USA; AbD Serotec, a division of MorphoSys, Munich, Germany; Sigma-Aldrich, St. Louis, MO, USA; Pierce Antibodies, Rockford, IL, USA