

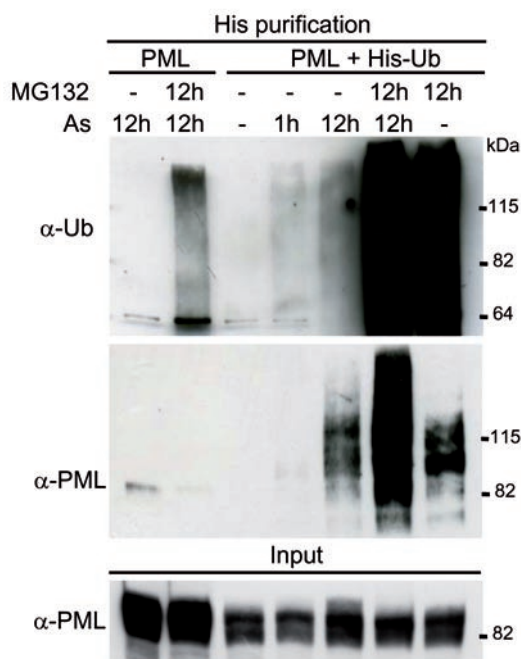


Figure S1 Identification of PML/Ubiquitin conjugates. Histidine purification of extracts from 6xHis-Ubiquitin- and PML-co-transfected CHO cells treated

or not with arsenic or MG132 for the indicated periods of time were probed with anti-Ub or anti-PML antibodies. PML inputs are also shown.

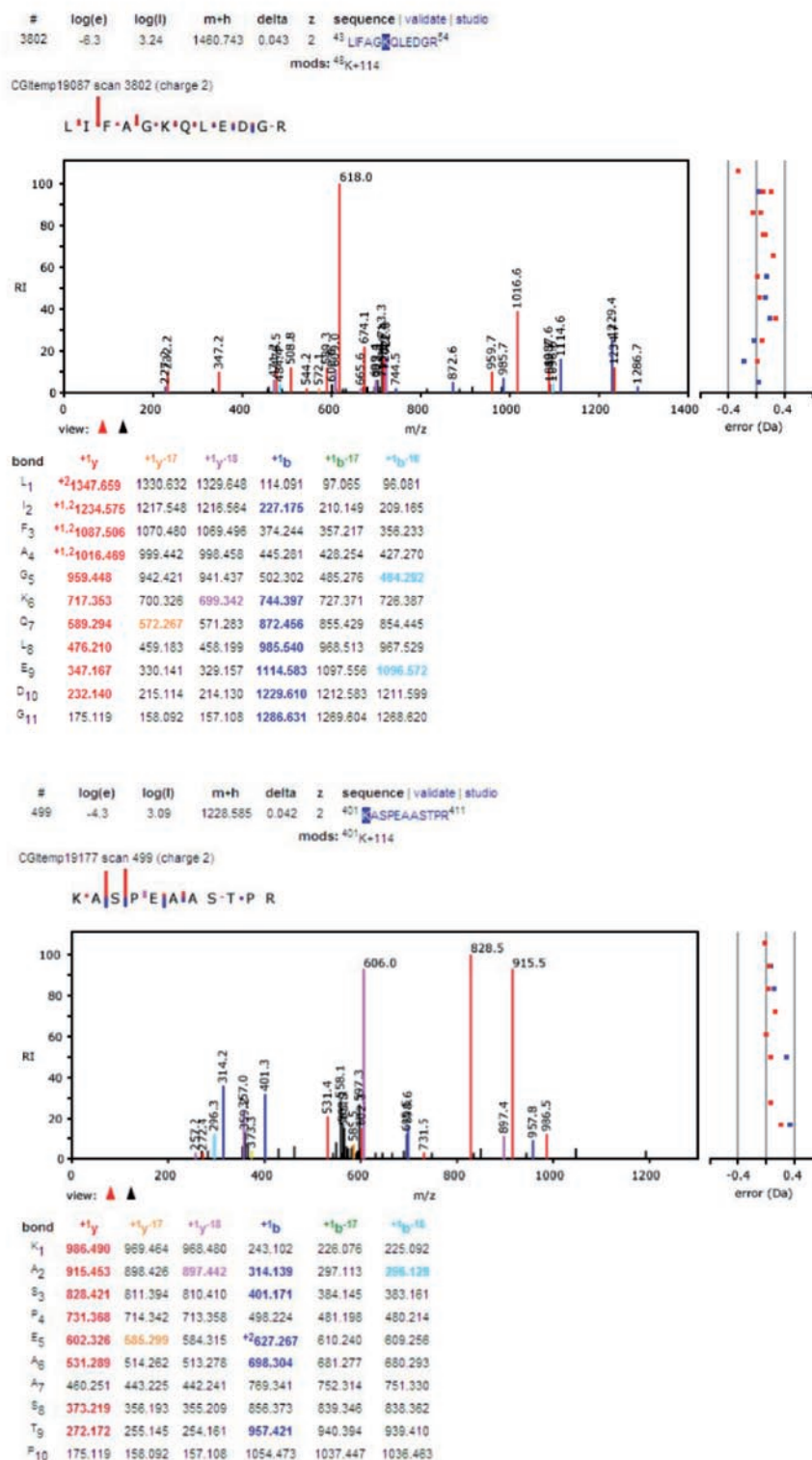


Figure S2 Mass spectrometry analysis of PML post-translational modifications. **(a)** Identification of a ubiquitin conjugation site at ubiquitin K48. His-PML was isolated from arsenic-treated CHO cells and subjected to LC-ESI-MS/MS analysis. X!Tandem fragment ion assignments are shown (*y*-ions in red, *b*-ions in blue), along with associated mass errors. The lysine residue modified with the tryptic Ub fragment (Gly-Gly) is indicated. Peptide Prophet p-value of this identification = 0.99. **(b)** Identification

of a ubiquitin conjugation site on PML K401. His-PML was isolated from arsenic-treated CHO-PML cells pre-treated with butyrate to enhance PML expression and subjected to LC-ESI-MS/MS analysis. A tryptic PML peptide (K401-R411) modified with ubiquitin was identified by X!Tandem. Fragment ion assignments are shown, and the modified lysine highlighted. Mass errors (*b*-ions in blue, *y*-ions in red) are also indicated. Peptide prophet p value = 1.0.

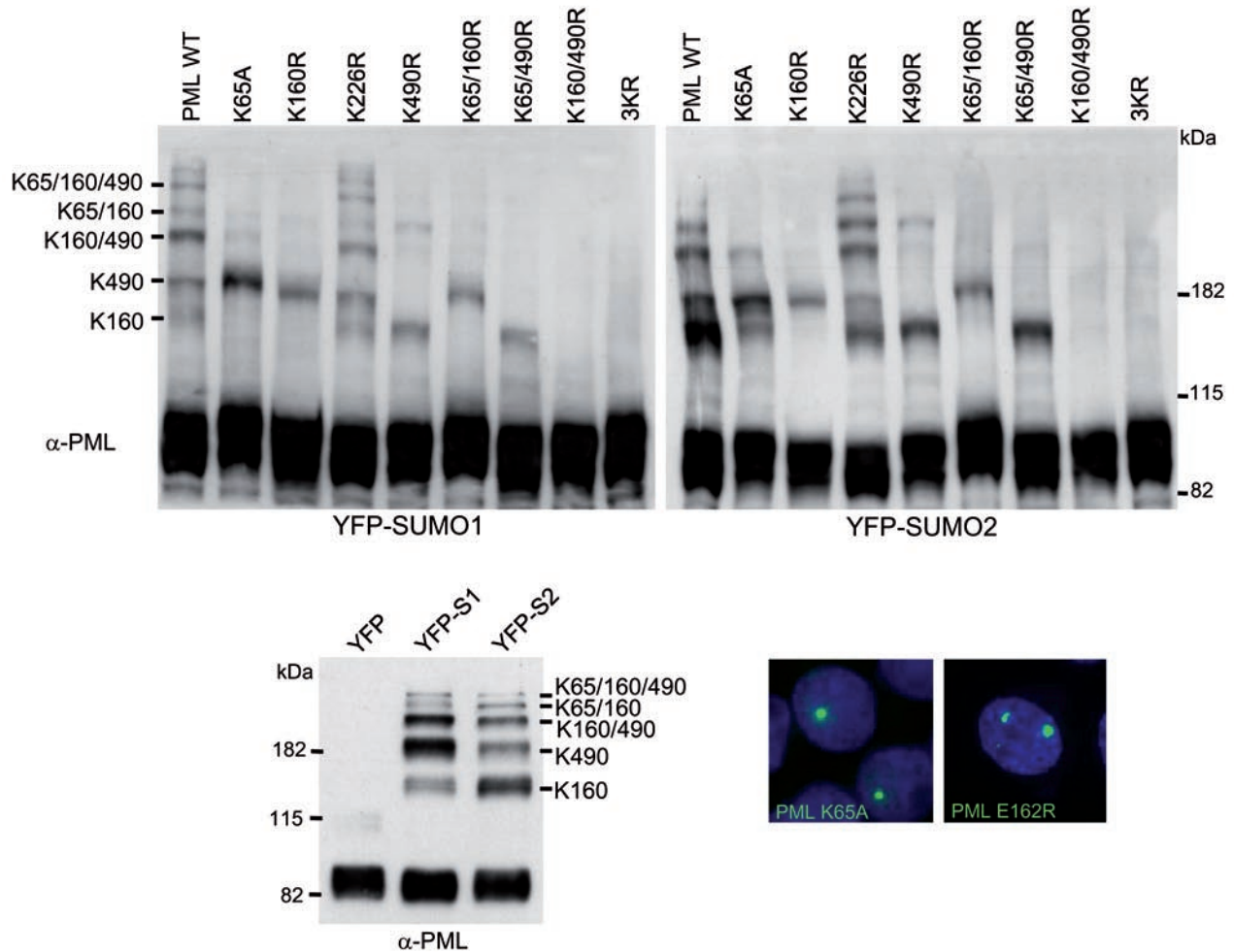


Figure S3 Analysis of PML sumoylation mutants. (a) PML and sumoylation mutants were transiently co-transfected with YFP-SUMO-1 or YFP-SUMO-2 expression vectors in CHO cells. Molecular weight markers are indicated on the right. (b) Comparison of YFP-SUMO-1 and

YFP-SUMO-2 conjugation to PML in co-transfected CHO cells. Note that SUMO-2 prefers the K160 site of PML. (c) Large single PML NBs in CHO cells stably expressing PML various mutants defective for K160 sumoylation, as indicated.

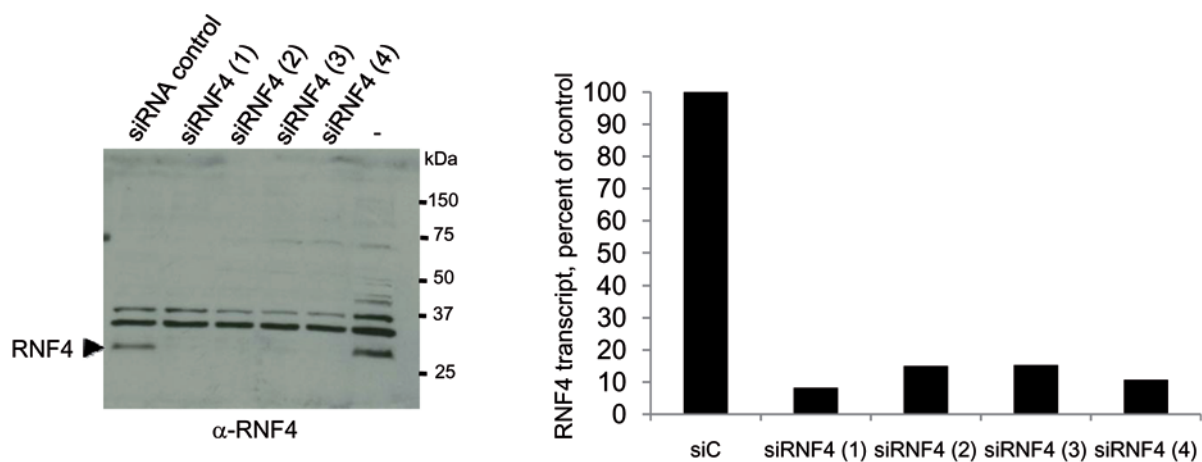


Figure S4 RNF4 siRNAs down-regulate RNF4 mRNA and protein. Western blot (a) and quantitative PCR (b) analysis of RNF4

expression upon inactivation with the different siRNA in HeLa cells.

Figure 1a

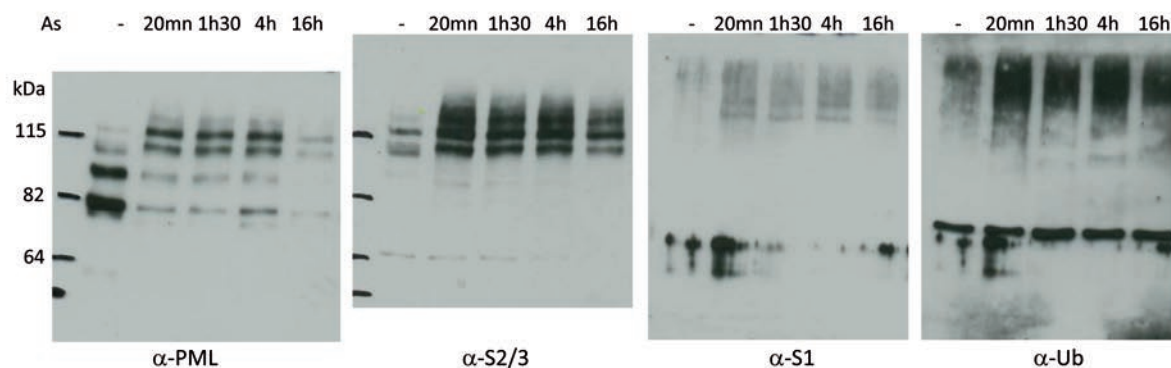


Figure 1b

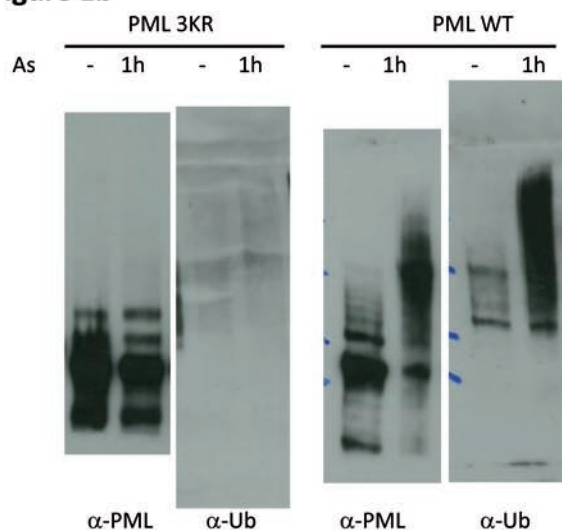


Figure 1c

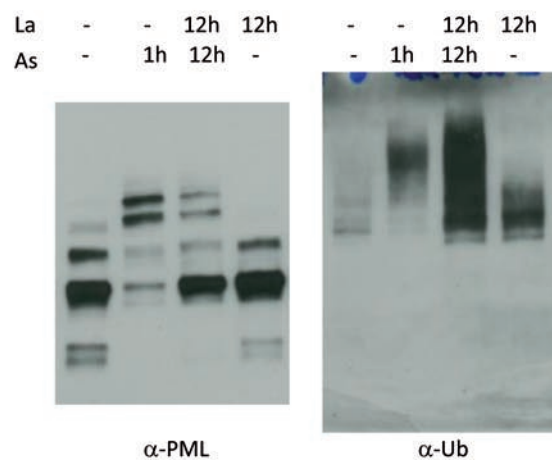


Figure S5 Complete scans of the different gels presented in the manuscript. The figures of origin are indicated.

Figure 2a

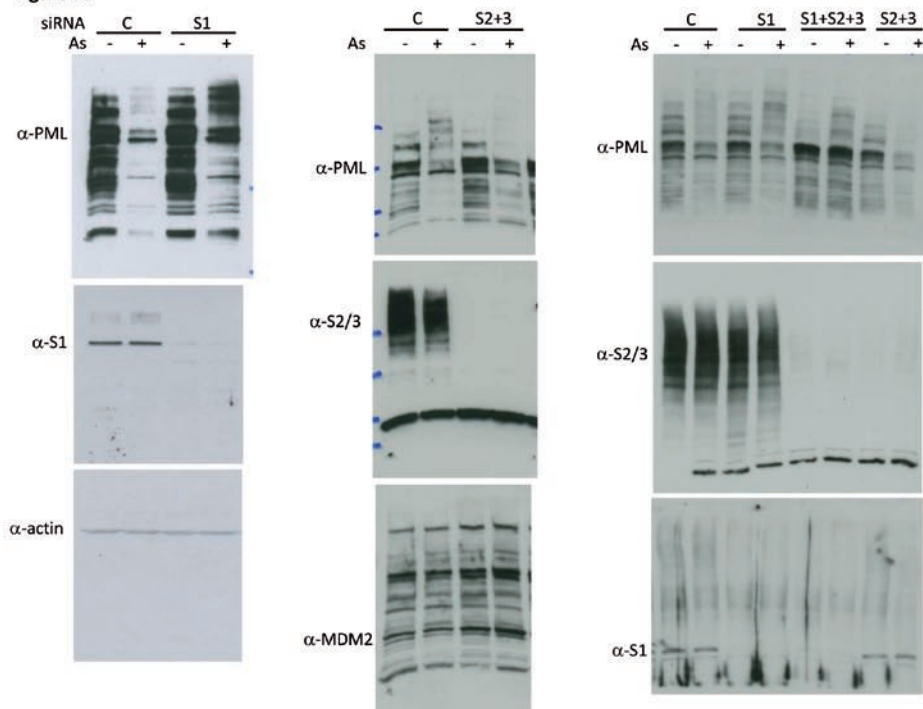


Figure 2b

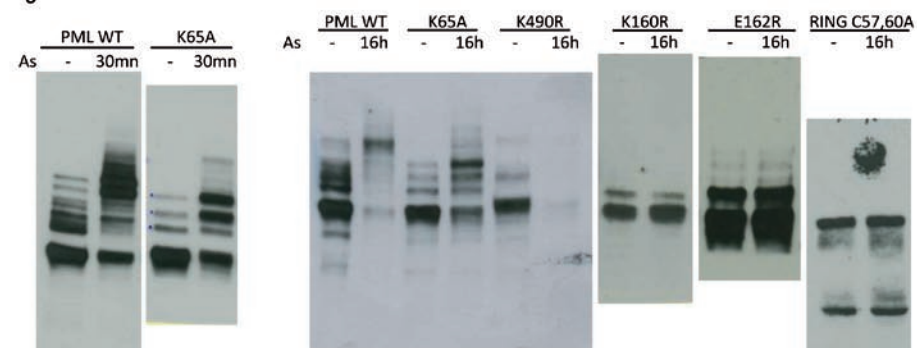


Figure 2c

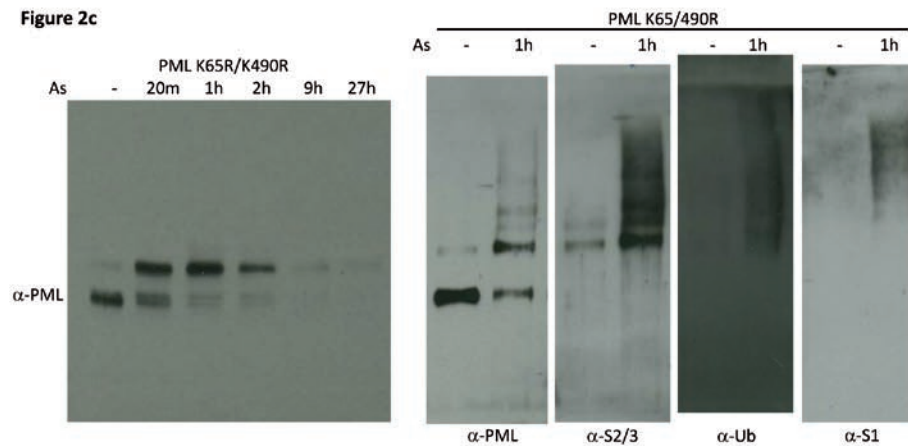


Figure S5 continued

Figure 3a

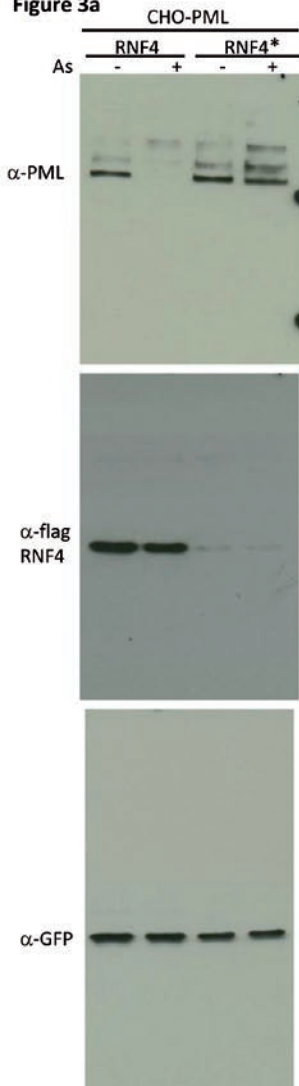


Figure 3b

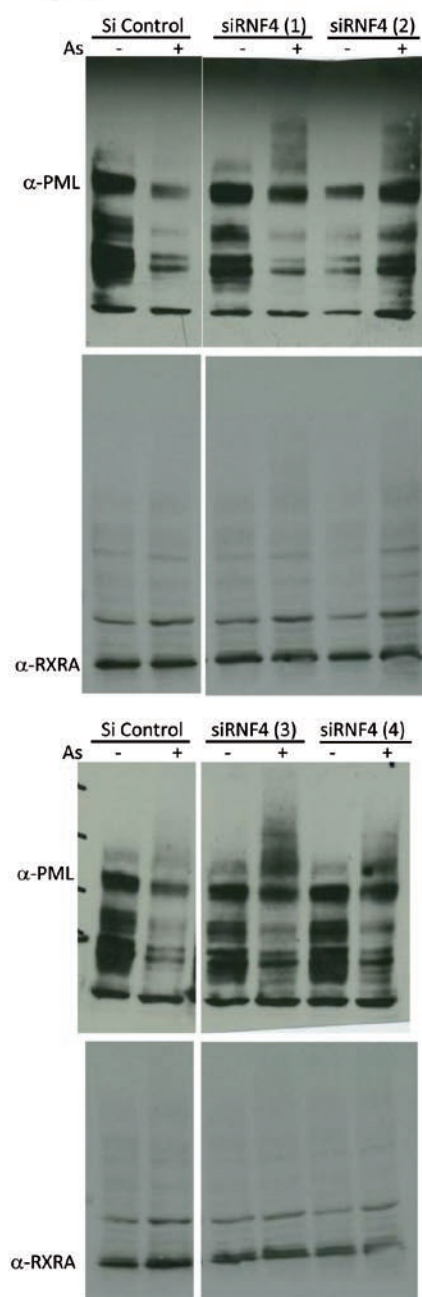


Figure 3c

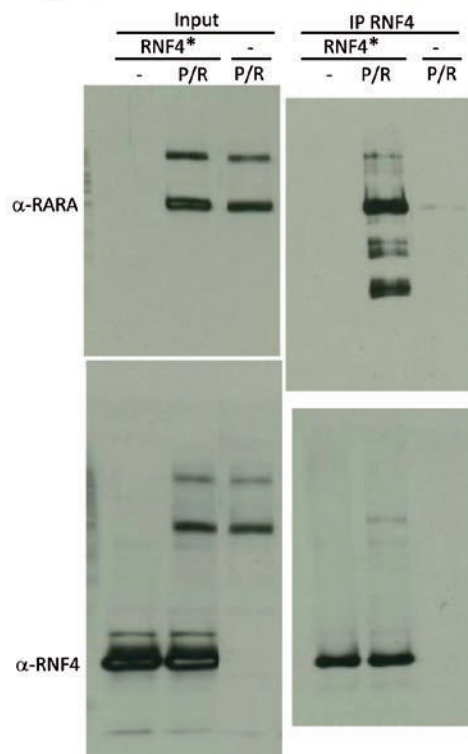


Figure S5 continued