

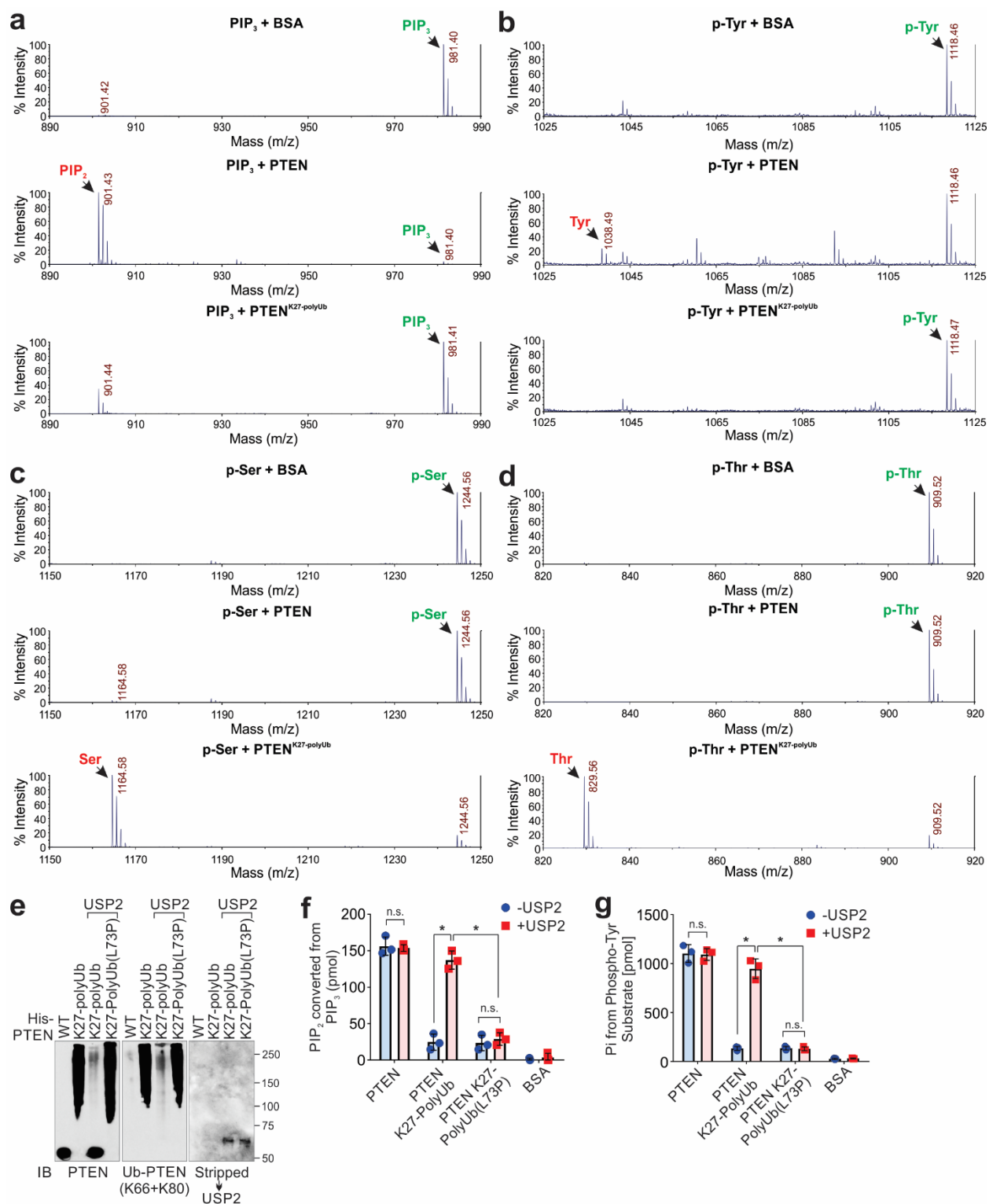


Figure S6: K27-linked polyubiquitination modulates the phosphatase activity of PTEN.

(a-d) Annotated MS/MS spectrum assigned to detect the dephosphorylation of PIP₃ (a), p-Tyr (b), p-Ser (c) or p-Thr (d) in PTEN phosphatase activity assays with BSA, unmodified or PTEN^{K27-polyUb}. **(e)** *In vitro* deubiquitination assay were performed by using USP2 and indicated PTEN proteins, followed by IB detection using indicated antibodies. **(f, g)** Measurement of lipid and protein phosphatase activity of PTEN (unmodified or K27-polyUb) in the presence or absence of USP2, using PIP₃ (f) or p-Tyr peptide (g) as substrate respectively. Error bars, SD., *n*=3 independent experiments, Student's t-test (n.s. *p*>0.05 and **p*<0.05).