

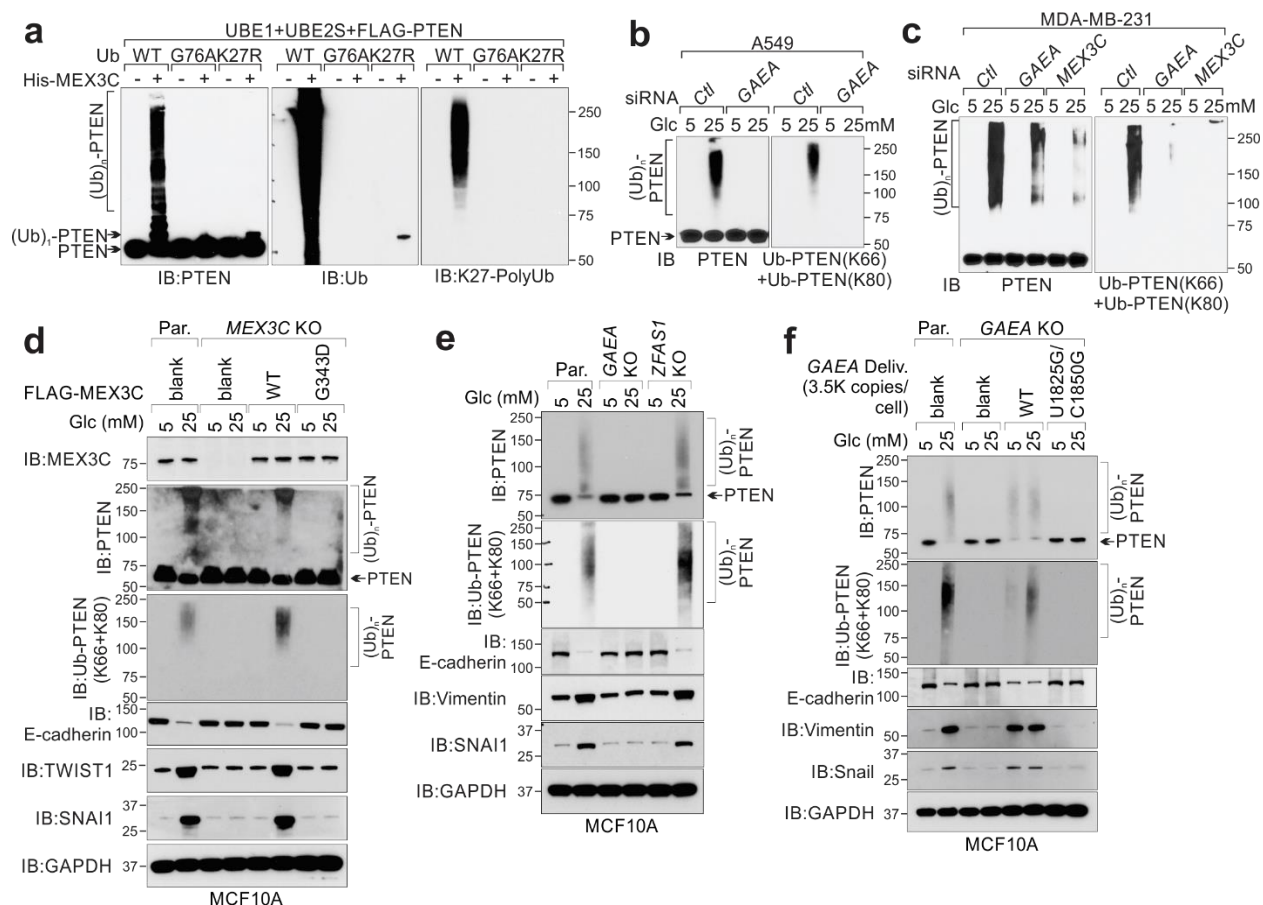


Figure S4: MEX3C catalyzes K27-linked polyubiquitination of PTEN.

(a) IB detection of PTEN or indicated polyubiquitinated PTEN purified from *in vitro* ubiquitination assay. (b) IB detection using indicated antibodies in A549 cells transfected with indicated siRNAs followed by glucose stimulation (5 mM or 25mM, 1 hr). (c) IB detection using indicated antibodies in MDA-MB-231 cells transfected with indicated siRNAs followed by glucose stimulation (5 mM or 25mM, 1 hr). (d) IB detection using indicated antibodies in MCF10A cells harboring indicated sgRNAs transfected with indicated expression constructs followed by glucose stimulation (5 mM or 25mM, 1 hr). (e) IB detection using indicated antibodies in MCF10A cells harboring indicated sgRNAs followed by glucose stimulation (5 mM or 25mM, 1 hr). (f) IB detection using indicated antibodies in MCF10A cells harboring indicated sgRNAs transfected

with indicated expression constructs followed by glucose stimulation (5 mM or 25mM, 1 hr) (n.s. $p>0.05$ and $*p<0.05$, $**p<0.01$, and $***p<0.001$).