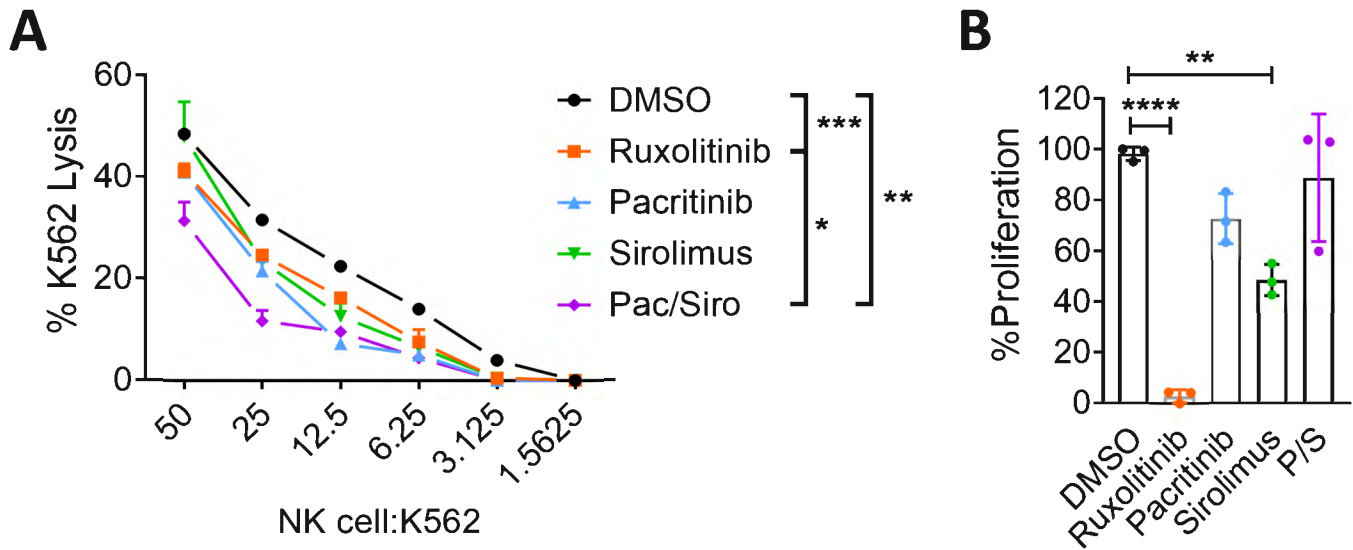


Supplemental Figure 4. Impact of JAK2/mTOR blockade on human NK cell function and proliferation.



Human NK cells were isolated by magnetic bead purification ($CD3^{neg}$, $CD56^{+}$) from peripheral blood and cultured with K562 target cells at varying NK cell:K562 ratios. A) Graph shows the cytolytic activity (\pm SEM) of NK cells after 4 hours of culture with K562 target cells, while exposed to DMSO, ruxolitinib ($1\mu M$), pacritinib ($1.25\mu M$), sirolimus $10ng/ml$, or a combination of pacritinib plus sirolimus. K562 lysis was measured using a colorimetric assay. 1 representative experiment of 2 is shown. B) Human NK cells (10^5) were stimulated with a cytokine cocktail of recombinant human (rh) IL-2 ($200 IU/ml$) and rhIL-15 ($10 ng/ml$), in the presence of DMSO, ruxolitinib, pacritinib, sirolimus, or pacritinib plus sirolimus. Drugs were added once on day 0. Cytokines were replenished on day +3. Bar graph shows NK cell proliferation (\pm SEM) on day +5 of the culture using a colorimetric assay. $n=3$ independent experiments. ANOVA A and B. * $P<0.05$, ** $P=0.01-0.001$, *** $P=0.001-0.0001$, **** $P<0.0001$.