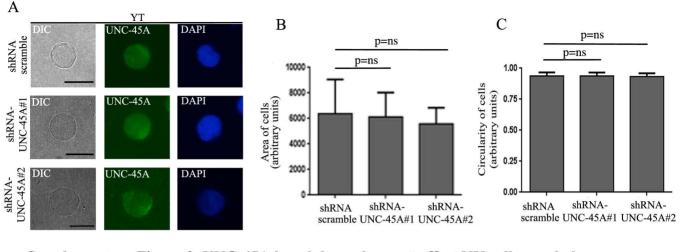
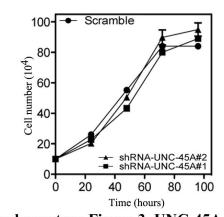


unengaged NK cells. (A) YT cells expressing a GFP-UNC-45A fusion protein were incubated in presence of 721.221 cells and stained with an anti-perforin antibody. Subcellular localization of UNC-45A in unengaged cells was analyzed via fluorescence microscopy. Bars= 5μM. (B) Quantification of the % of UNC-45A co-localizing with perforin in unconjugated YT cells.

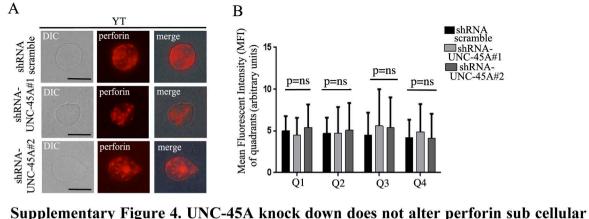


Supplementary Figure 2. UNC-45A knockdown does not affect NK cell morphology.

(A) **Stable** YT cells expressing either scramble or UNC-45A knockdown (KD#1 and KD#2) evaluated for their morphology via phase contrast microscopy and DAPI staining. Bars 5μM. (B) Evaluation of cells' area in YT cells expressing either scramble or UNC-45A knockdown (KD#1 and KD#2). (C) Evaluation of cells' shape (circularity) in YT cells expressing either scramble or UNC-45A knockdown (KD#1 and KD#2).



Supplementary Figure 3. UNC-45A knockdown does not affect NK cell proliferation rate. Stable YT cells expressing either scramble or UNC-45A knockdown (KD#1 and KD#2) evaluated for their viability by counting them at the indicated time points in a in the presence of trypan blue. Average of three independent experiments conducted in triplicates.



localization in unengaged NK cells. (A) YT, NK cells transduced with either shRNAscramble or shRNA targeting two different UNC-45A regions (#1 and #2) and incubated with 721.221 target cells. Following fixation, NK unengaged cells were stained with antiperforin monoclonal antibody followed by Texas Red-goat anti-mouse IgG and analyzed via fluorescence microscopy. (B) Quantification of Mean Fluorescent Intensity (MFI) per quadrant. Per each condition the four cells' quadrants (Q1, Q2, Q3 and Q4) were analyzed.