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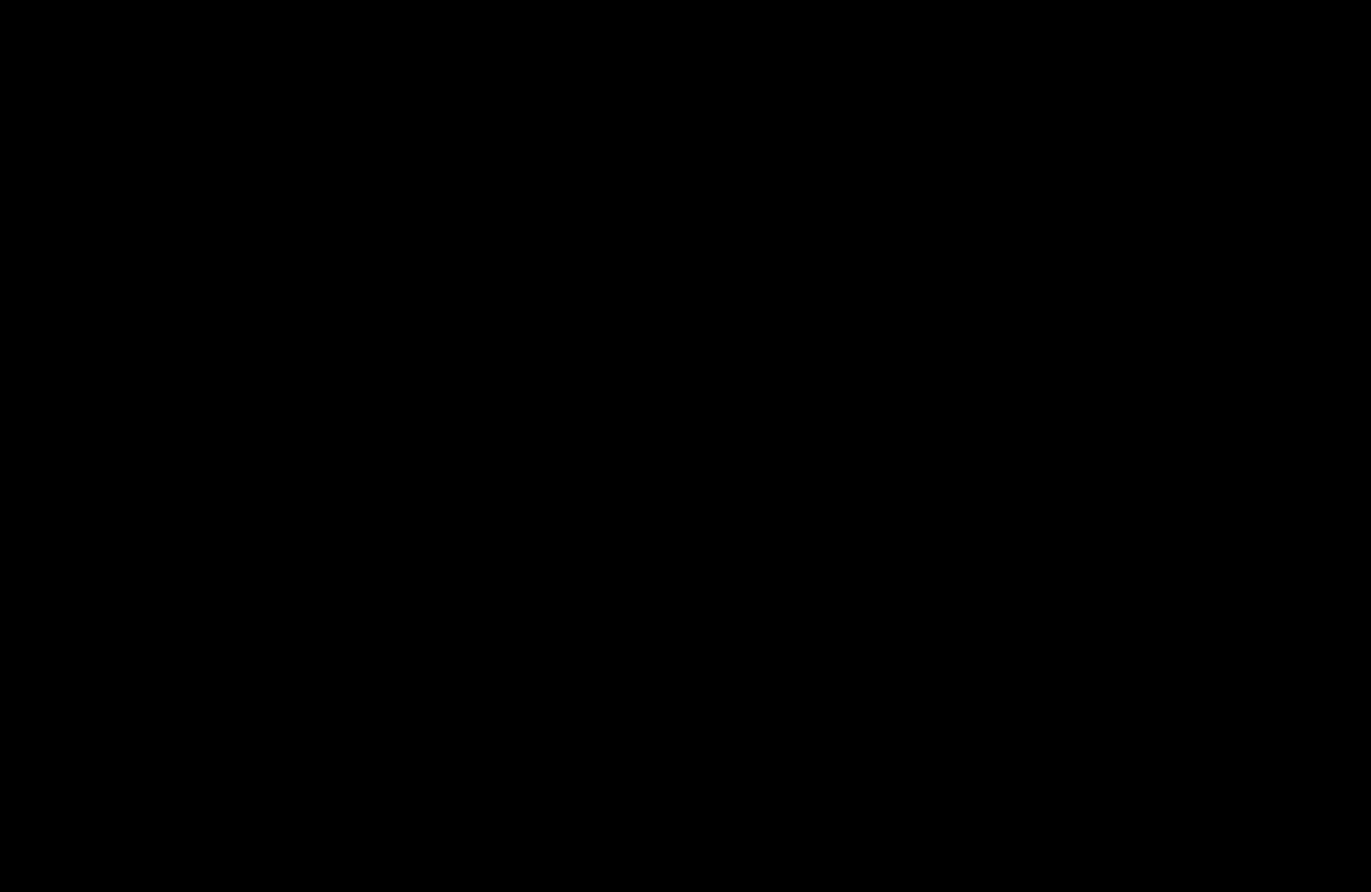

- Natural killer cells can be chemically primed by branched polyethylenimine (Mw>25KDa).
- Chemically primed NK cells have potent antitumor activity as well as enhanced migration ability.
- The major mechanism for the chemical to enhance antitumor activity of natural killer cell is TRPM2 mediated calcium influx that is directly linked to the accumulation of perforin in the absence of target cell recognition.