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Isolation of natural killer (NK) cells from human blood products

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ABSTRACT

Standard isolation procedure for peripheral blood mononuclear cells from human blood leukopheresis products

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1 Healthy donor blood products (Leukopaks) were obtained from Memorial Blood Bank (Minneapolis, MN). All samples were de-identified and their use was approved by the University of Minnesota and NMDP institutional review board in accordance with the

Declaration of Helsinki.

2 Peripheral blood mononuclear cells (PBMCs) were separated through density gradient filtratation (Ficoll-Paque; GE Healthcare).

3 For experiments with enriched NK cells, PBMCs were processed fresh using negative magnetic bead separation (EasySep Human NK Cell Enrichment Kit; Cat. No:19055, STEMCELL Technologies).

4 Experiments with PBMCs or enriched NK cells were performed in RPMI 1640 supplemented with 10% Fetal Bovine Serum and 1% penicillin/streptomycin. Where specified, culture was supplemented with recombinant human IL-15 (National Cancer Institute).

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