

# Human Peripheral Blood CD56<sup>+</sup> Natural Killer Cells (V158<sup>+</sup>)

## Negatively Selected

Catalog #	Unit Size (cells/vial)
0556-110	5 x 10 <sup>6</sup>
0556-210	10 x 10 <sup>6</sup>

### Product Description

Cryopreserved CD56<sup>+</sup> natural killer (NK) cells (V158<sup>+</sup>) have been isolated from healthy donors expressing FcγR111a (with the valine isoform at position 158 of CD16).<sup>\*</sup> These specifically sourced and selected NK Cells have displayed greater functional NK cell activity (vs normal population) within the in vitro Antibody-Dependent Cell-Mediated Cytotoxicity (ADCC) assay. ADCC is considered to be an important mechanism by which antibodies kill targeted tumor cells.

### Sample Collection and Processing

CD56<sup>+</sup> NK cells are collected from peripheral blood (PB) mononuclear cells of normal human volunteers using the COBE® Spectra collection system or AutoPBSC® collection protocol. All donors have been tested and determined negative for transmissible infectious diseases with the standard panel of tests (please see Certificate of Analysis).

CD56<sup>+</sup> NK cells are enriched by negative selection using an immunomagnetic cell separation method consisting of an antibody cocktail to target and deplete non-CD56<sup>+</sup> cells.

### Purity

Purity of PB CD56<sup>+</sup> NK (V158<sup>+</sup>) cells is ≥90% as measured by flow cytometric analysis.

### Stability and Storage

- Cells are cryopreserved in CryoStor® CS5.
- Cells are stable for long-term storage at -152°C or in the gaseous phase of liquid nitrogen.
- Storage at -80°C is not recommended. Once thawed, the cells must be used immediately and have a finite life span in culture.

### Thawing Protocol

The thawing protocol can be found on our website at [www.reachbio.com/protocols](http://www.reachbio.com/protocols), by emailing [techsupport@reachbio.com](mailto:techsupport@reachbio.com) or by contacting customer service at 1.206.420.0300.

### Warning

Primary cells from human sources are a potential biohazard, treat as potentially infectious. All human sourced products should be handled at the Biological Safety Level 2 to minimize exposure of potentially infectious products. If you require further information, please contact your site safety officer.

<sup>\*</sup>Hatjiharissi E, Xu L, Santos DD et al, Increased natural killer cell expression of CD16, augmented binding and ADCC activity to rituximab among individuals expressing FcγR111a-158. Blood 110 (7):2561-2563.

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