

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

Positively Selected

Catalog #	Unit Size (cells/vial)
0556-101	5 x 10 <sup>6</sup>

## Product Description

Cryopreserved CD56<sup>+</sup> natural killer (NK) cells have been isolated from human peripheral blood (PB) mononuclear cells using immunomagnetic separation techniques. NK Cells are a major component of the innate immune system and play a major role in the rejection of tumors and cells infected by viruses. CD56<sup>+</sup> NK Cells kill by releasing perforin and granzymes that cause the target cell to die by apoptosis.

## Sample Collection and Processing

CD56<sup>+</sup> NK cells are collected from PB 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 positive 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 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.

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