



**NK, Human Peripheral Blood CD56⁺ Natural Killer Cells,
Frozen, Negatively Selected
(Catalog # PI-hNK-100)**

Product Description

Primary human NK cells are isolated from peripheral blood mononuclear cells (PBMCs). Natural killer cells (NK cells) are cytotoxic members of the innate immune system. CD56 NK cells are a major component of the immune system. CD56⁺ NK cells play a key role in the rejection of tumors and cells infected by viruses; killing by releasing perforin and granzymes that cause the target cell to die by apoptosis.

- Source: Peripheral Blood
- Donor Status: Normal
- Isolation Method: Negatively Selected
- Format: frozen in CryoStor® CS10, shipped in dry ice
- Purity: > 80% by flow cytometry
- Viability: > 95% by flow cytometry
- Anticoagulant: Acid-citrate-dextrose solution A (ACDA)
- Donor details: refer to the lot-specific Certificate of Analysis.

Stability and Storage

Product stable at -135°C or colder for 12 months from date of receipt. Short-term storage of cells (< 1 month) at -80°C is acceptable, but should be minimized to ensure maximum stability. Thawed samples must be used immediately.

Precautions

Biosafety: Universal precautions should be used when working with human cells as potential biohazards. Biosafety level II procedures and aseptic techniques should be followed.

Donor Screening: Donors have been tested and found to be negative for HIV-1, HIV-2, hepatitis B and C prior to donation. As testing cannot completely guarantee that the donor was virus-free, **THIS PRODUCT SHOULD BE TREATED AS POTENTIALLY INFECTIOUS** and only used following appropriate handling precautions such as those described in biological safety level 2.

For in vitro research use only. Not approved for diagnostic, therapeutic, or clinical applications.



CERTIFICATE OF ANALYSIS

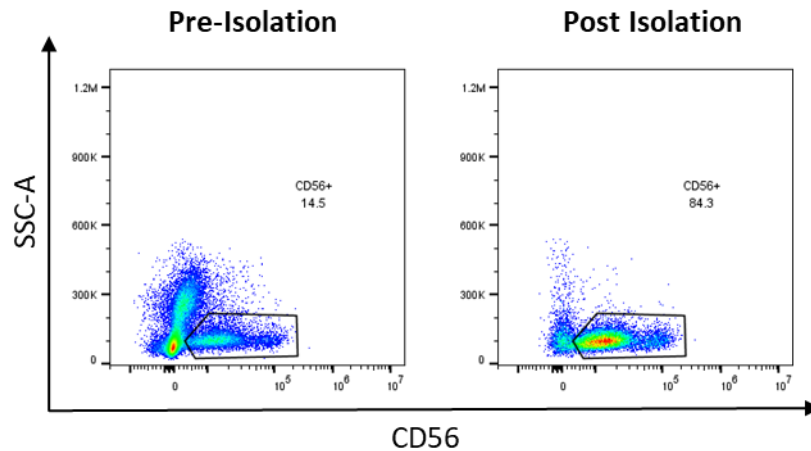
NK, Human Peripheral Blood CD56⁺ Natural Killer Cells, Frozen, Negatively Selected (Catalog # PI-hNK-100)

Source: Freshly collected Leukoreduction System (LRS) Chamber from NanoBiotec, LLC. (Cat # PBS-h001)

Cell viability: the viability of CD56⁺ NK cells was 97%

Cell purity: the purity of the CD56⁺ NK cells was 84%.

Flow cytometric analysis:



Lot specific information:

Lot#	Source #	Cryo date
PI032721-NK	Donor DIN: W091021194012 00H	3/27/2021

Donor demographics information:

Donor Status	Gender	Age	Blood type	Ethnicity
Normal	Female	42	A+	CA- Caucasian



Donor testing panel results: not reactive (NR)

HBC, Antibody to Hepatitis B Core (Anti-HBc EIA)	NR
HBs, Hepatitis B Surface Antigen (HBsAg EIA)	NR
HCV, Antibody to Hepatitis C Virus (Anti-HCV EIA)	NR
HIV, Antibody to Human Immunodeficiency Viruses 1 & 2	NR
HTLV, Antibody to Human T-Cell Lymphotropic Viruses I & II	NR
STS, Syphilis	NR
Ultrio, Nucleic Acid Testing for Hep B, Hep C, HIV	NR
WNV, West Nile Virus	NR
ZIKA, Investigational Zika Virus NAT	NR
CHAG Chagas disease	NR
CVAB, Antibody to SARS CoV2	NR
CMV, Antibody to Cytomegalovirus	NR

Released by: Dr. E.K.H

(signature _____)