

#### Products and Services

- Mouse Monoclonal Antibody
- Rat Monoclonal Antibody
- Human Antibody
- Hybridoma Sequencing
- Polyclonal Antibody

## DESCRIPTION

The control Lentivirus-transduced NK cells are available at  $1 \times 10^7$ - $1 \times 10^9$  cells in frozen vials, and shipped on dry-ice. The control Lentivirus-transduced NK cells were cryopreserved in the next-generation cryopreservation CS10 CryoStor medium (*Sigma Aldrich*, Catalog Number: C2874. CryoStor is a registered trademark of BioLife Solutions, Inc.).

## STORAGE TEMPERATURE

Liquid nitrogen vapor phase for frozen vial ( $-130^{\circ}\text{C}$ ).

## CONTROL LENTIVIRUS-TRANSDUCED NK CELLS

The control lentivirus (Lenti CMV-MCS-EF1a-puro) was used to transduce NK-92 cells (ATCC, CRL-2407).

The control Lentivirus-transduced NK cells and non-transduced NK cells are provided frozen in vials (sterile), shipped on dry ice, and can be used as a negative control for CAR-NK cells in different assays or can be activated/expanded for different applications. The non-transduced and mock control no ScFv-CAR NK cells, lentivirus vector-transduced NK cells are available for ordering as controls for experiments.

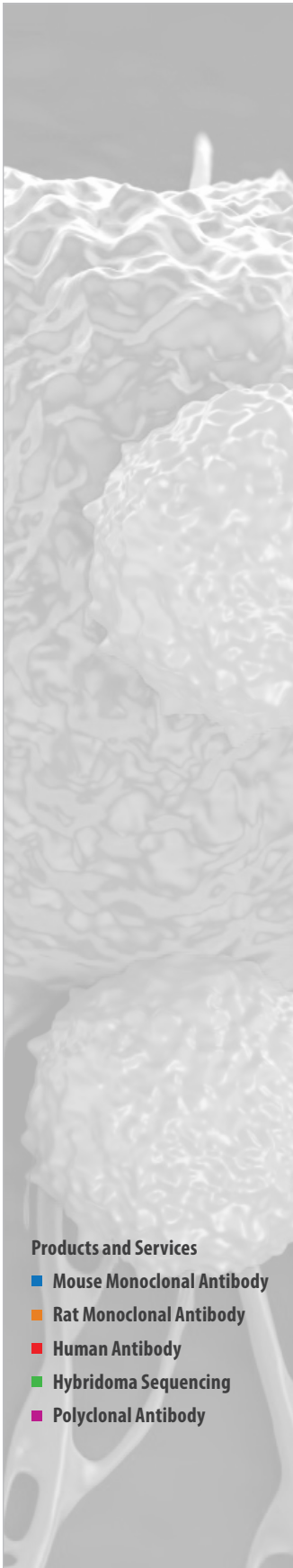
## APPLICATIONS

To use as a negative control during examination of cytotoxic activity with different cancer cells, tests of immune modulators: activators or inhibitors for CD19-CAR NK (effector) and hematological cancer (target) cells.

## PROTOCOL

1. Thaw control Lentivirus-transduced-CAR-NK cell samples quickly in a  $37^{\circ}\text{C}$  water bath until all visible ice has melted. Thaw time for a 1 mL sample in a cryovial is 2-3 minutes. Cryovials should be cool to the touch when removed from the water bath.
2. Dilute cell/CryoStor mixture immediately with CAR-T cell culture medium. This can be performed in a single step. The dilution medium should be between  $20$ - $37^{\circ}\text{C}$ . A dilution ratio of 1:10 (sample:medium) or greater is recommended.
3. Plate cells appropriately according to the experimental conditions of assays.
4. Culture the Lentivirus-transduced NK cells or use immediately

Note: Lentivirus-transduced NK cells that are used immediately after thawing have the highest level of viability of any thawed cells.



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## DELIVERABLES

### CD19 NK cell (CD19-28-ζ) NK cell Prices

Available Cell Numbers	Price	Catalog Number
1x10 <sup>6</sup> cells	\$1,000	PM-NK 1000-1M
2x10 <sup>6</sup> cells	\$1,500	PM-NK 1000-2M
1x10 <sup>7</sup> cells	\$4,000	PM-NK 1000-10M
1x10 <sup>8</sup> cells	\$8,000	PM-NK 1000-100M
1x10 <sup>9</sup> cells	(please request)	PM-NK 1000-1000M

## REFERENCES

Kochenderfer, J.N., Feldman, S.A., Zhao, Y., Xu, H., Black, M.A., Morgan, R.A., Wilson, W.H. and Rosenberg, S.A. Construction and preclinical evaluation of an anti-CD19 chimeric antigen receptor. *J. Immunother.* 32 (7), 689-702 (2009).

Kowolik CM, Topp MS, Gonzalez S, Pfeiffer T, Olivares S, Gonzalez N, Smith DD, Forman SJ, Jensen MC, Cooper LJ. CD28 costimulation provided through a CD19-specific chimeric antigen receptor enhances in vivo persistence and antitumor efficacy of adoptively transferred T cells. *Cancer Res*, 66, 10995-10004, (2006)

## PRODUCT ORDERS

Before submitting an order you will be asked to read and accept the terms and conditions of ProMab Biotechnologies's Material Transfer Agreement (MTA).

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