

- Products and Services**
- Mouse Monoclonal Antibody
 - Rat Monoclonal Antibody
 - Human Antibody
 - Hybridoma Sequencing
 - Polyclonal Antibody

DESCRIPTION

Hela cells are cervical cancer carcinoma cells which are available from ATCC (Hela, ATCC CCL-2). Hela cells were stably transformed with CD19. CD19 (cluster of differentiation 19) is a protein that is overexpressed in B cell cancers. Expression of CD19 was confirmed by flow cytometry with anti-CD19-PE antibody (Figure 1). The cells are available in frozen vials, shipped on dry ice, or growing in a tissue culture flask, shipped at room temperature.

APPLICATIONS

The cells can be used as a solid tumor cell line overexpressing tumor antigen target (CD19) in immunotherapy experiments. For example, Hela-CD19 cells can be used as a target cancer cell line for effector CD19scFv CAR-T cells in cytotoxicity assays (Figure 2).

DATA

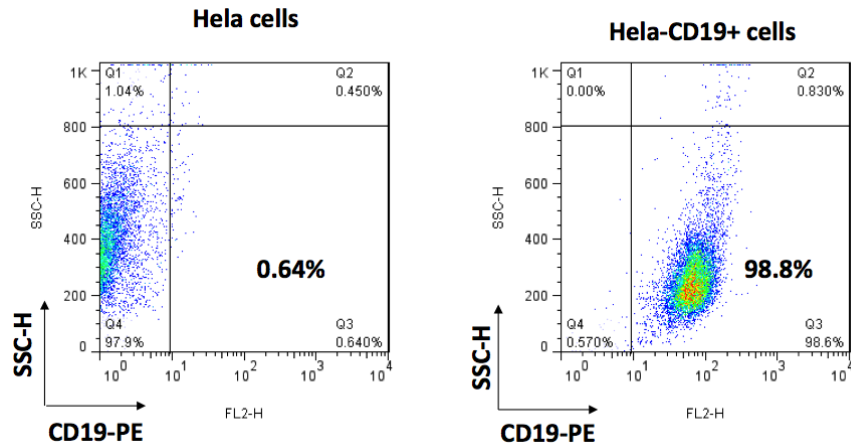


Figure 1. Expression of CD19 in Hela cells. Hela cells were transduced with CD19 lentivirus. 98.8% cells expressed CD19.

Hela-CD19 cells

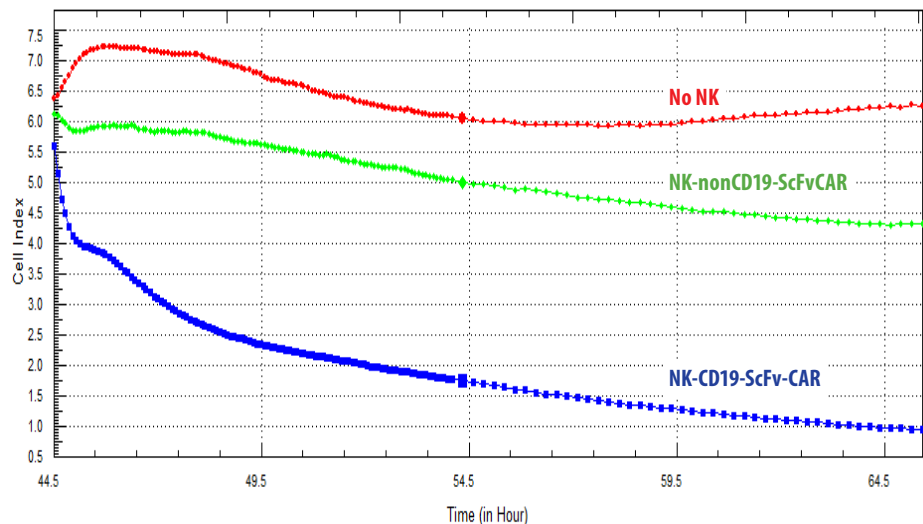
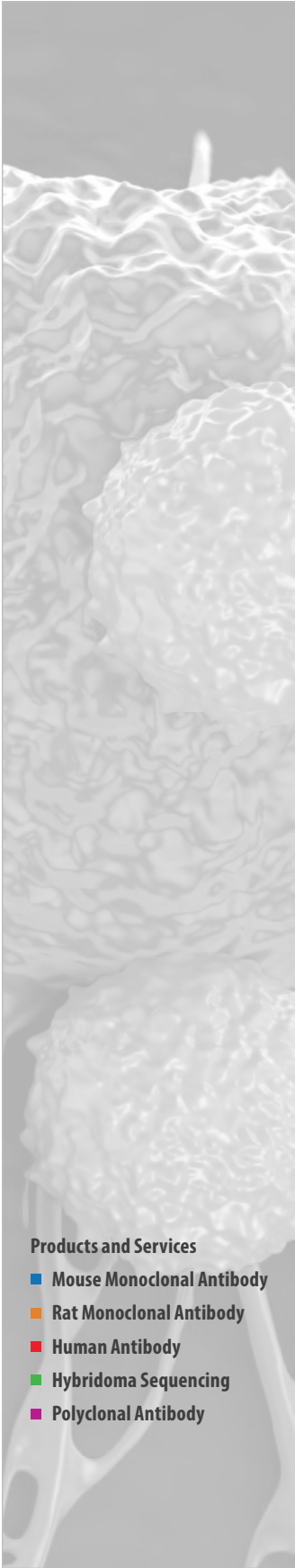


Figure 2. Real-time cytotoxicity assay with Hela-CD19 target cells and CD19-CAR effector NK cells.



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STORAGE TEMPERATURE

Liquid nitrogen vapor phase for frozen vial.

PROTOCOL FOR CULTURE

Hela-CD19 cells are cultured in DMEM with 10% FBS according to the standard protocol.

FREEZING MEDIUM

Cells are frozen in the medium with 10% FBS and 10% DMSO.

1. Resuspend cell pellet in the freezing medium to in 2 mL cryopreservation vial.
2. Add the cryopreservation vial into a cryopreservation unit.
3. Place the cryopreservation unit into -80°C freezer.
4. Transfer the cryopreservation unit into liquid nitrogen tank next day.

PRODUCT ORDERS

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

NOTICES & DISCLAIMERS

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Hela-CD19 Cell Prices

Available Cell Numbers	Price	Catalog Number
1x10 ⁶ /vial	\$8,000	PM-HELA-CD19