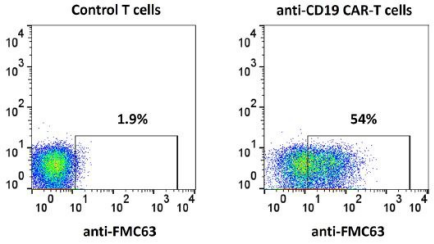
Human CD19 scFv-TM-CD28-4-1BB-CD3z

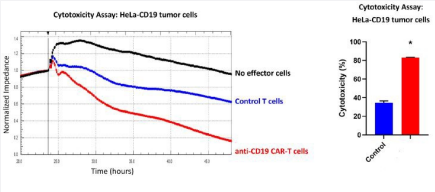
Catalog # U1007 Size 1 Tub

Applications



Flow Cytometry

The majority of CAR-T cells express the anti-CD19 CAR, detected with an anti-FMC63 idiotypic antibody.



Cytotoxicity

CAR-T cells are significantly more cytotoxic than control T cells for HeLa tumor cells expressing CD19 ($p<0.0001$ by t test).

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES OR THERAPEUTIC APPLICATIONS.

CAR Structure

CAR domains. scFv: single chain variable fragment; TM: transmembrane domain.

Specification

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Product Description	Human CAR-T cells express an anti-CD19 CAR containing a CD19-specific scFv, hinge and transmembrane domains, both CD28 and 4-1BB costimulatory domains and the CD3zeta activation domain.
Package	1x10^6 Cells/mL
Transfected Cell Line	Primary T cells
Host	Human
Form	Liquid
Regulation Status	For in vitro research use only (RUO)
Culture Medium	DMEM + FBS + IL2
Storage Buffer	In 90% FBS, 10% DMSO
Storage Instruction	For long term storage store at liquid nitrogen storage. Aliquot to avoid repeated freezing and thawing.
Note	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES OR THERAPEUTIC APPLICATIONS. CAR Structure CAR domains. scFv: single chain variable fragment; TM: transmembrane domain.

Applications

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- Cytotoxicity

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Gene Info — CD19

Entrez GeneID	930
Gene Name	CD19
Gene Alias	B4, MGC12802
Gene Description	CD19 molecule
Omim ID	107265

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Gene Ontology	Hyperlink
Gene Summary	Lymphocytes proliferate and differentiate in response to various concentrations of different antige ns. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold fo r antigen receptor-dependent stimulation. [provided by RefSeq
Other Designations	B-lymphocyte antigen CD19|CD19 antigen

Pathway

- B cell receptor signaling pathway
- Hematopoietic cell lineage
- Primary immunodeficiency

Disease

- Arthritis
- Crohn Disease
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Pemphigus
- Scleroderma

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