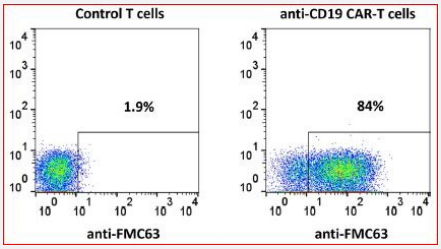
Human CD19 scFv-TM-CD28-CD3z

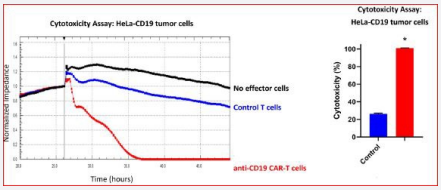
Catalog # U1003 Size 1 Tub

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

Product Description	Human CAR-T cells express an anti-CD19 CAR containing a CD19-specific scFv, hinge and transm embrane domains, the CD28 costimulatory domain and the CD3zeta activation domain.

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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.
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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
Gene Ontology	Hyperlink

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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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