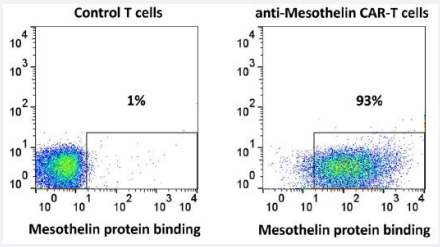
Human MSLN scFv-TM-CD28-4-1BB-CD3z

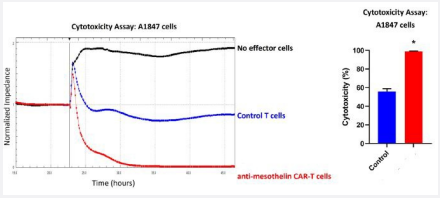
Catalog # U1014 Size 1 Tub

Applications



Flow Cytometry

CAR-T cells express the mesothelin CAR, detected with labeled mesothelin protein.



Cytotoxicity

CAR-T cells are significantly more cytotoxic than control T cells for A1847 tumor cells endogenously expressing mesothelin ($p<0.0001$ by t test).

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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-mesothelin CAR containing a mesothelin-specific scFv, hinge and transmembrane domains, the CD28 and 4-1BB costimulatory domains and the CD3zeta activation domain.
Package	$5x10^6$ Cells/mL
Transfected Cell Line	Primary T cells
Host	Human
Form	Liquid
Regulation Status	For 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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  CAR-T cells express the mesothelin CAR, detected with labeled mesothelin protein.

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Gene Info — MSLN

Entrez GeneID	10232
Gene Name	MSLN
Gene Alias	CAK1, MPF, SMR
Gene Description	mesothelin

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Omim ID	601051
Gene Ontology	Hyperlink
Gene Summary	An antibody that reacts with ovarian cancers and mesotheliomas was used to isolate a cell surface antigen named mesothelin. Although the function of mesothelin is unknown, it may play a role in cellular adhesion and is present on mesothelium, mesotheliomas, and ovarian cancers. This gene encodes a preproprotein that is cleaved into two products, megakaryocyte potentiating factor and mesothelin. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Other Designations	megakaryocyte potentiating factor

Disease

- Adenocarcinoma
- Asbestosis
- Esophageal Neoplasms
- Mesothelioma
- Occupational Diseases
- Pleural Neoplasms

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