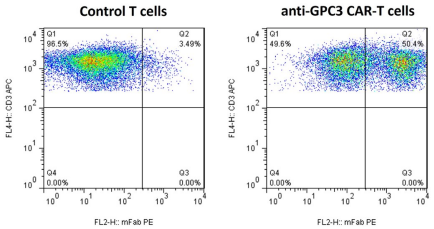
Human GPC3 scFv-TM-4-1BB-CD3z

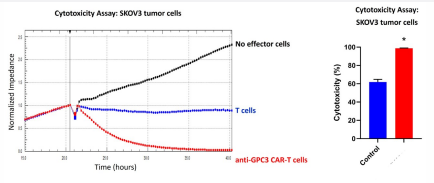
Catalog # U1132 Size 1 Tub

Applications



Flow Cytometry

A large subset of CAR-T cells express the anti-GPC3 CAR, detected with an antibody specific for mouse IgG Fab'2 sequences present in the scFv.



Cytotoxicity

CAR-T cells are significantly more cytotoxic than control T cells for SKOV3 tumor cells endogenously expressing GPC3 (p=0.0062 by t test).

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CAR Structure

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

Specification

Product Description	Human CAR-T cells express an anti-GPC3 CAR containing a GPC3-specific scFv, hinge and transm embrane domains, the 4-1BB costimulatory domain and the CD3zeta activation domain.

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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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- Cytotoxicity

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Gene Info — GPC3

Entrez GeneID	2719
Gene Name	GPC3
Gene Alias	DGSX, OCI-5, SDYS, SGB, SGBS, SGBS1
Gene Description	glypican 3
Omim ID	194070 300037 312870
Gene Ontology	Hyperlink

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Gene Summary	Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. The protein encoded by this gene can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphia syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Other Designations	OTTHUMP00000024058|OTTHUMP00000062492|glypican proteoglycan 3

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