



## Synonym

MSLN, Mesothelin, MPF

## Source

PE-Labeled Human Mesothelin (296-580), His Tag (MSN-HP2H8) is produced via conjugation of PE to Human Mesothelin (296-580), His Tag with a new generation site-specific technology under Star Staining labeling platform. Human Mesothelin (296-580), His Tag is expressed from human 293 cells (HEK293). It contains AA Glu 296 - Gly 580 (Accession # [AAH09272.1](#)).

## Molecular Characterization

Mesothelin(Glu 296 - Gly 580)	Poly-his
AAH09272.1	

This protein carries a polyhistidine tag at the C-terminus.

## Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

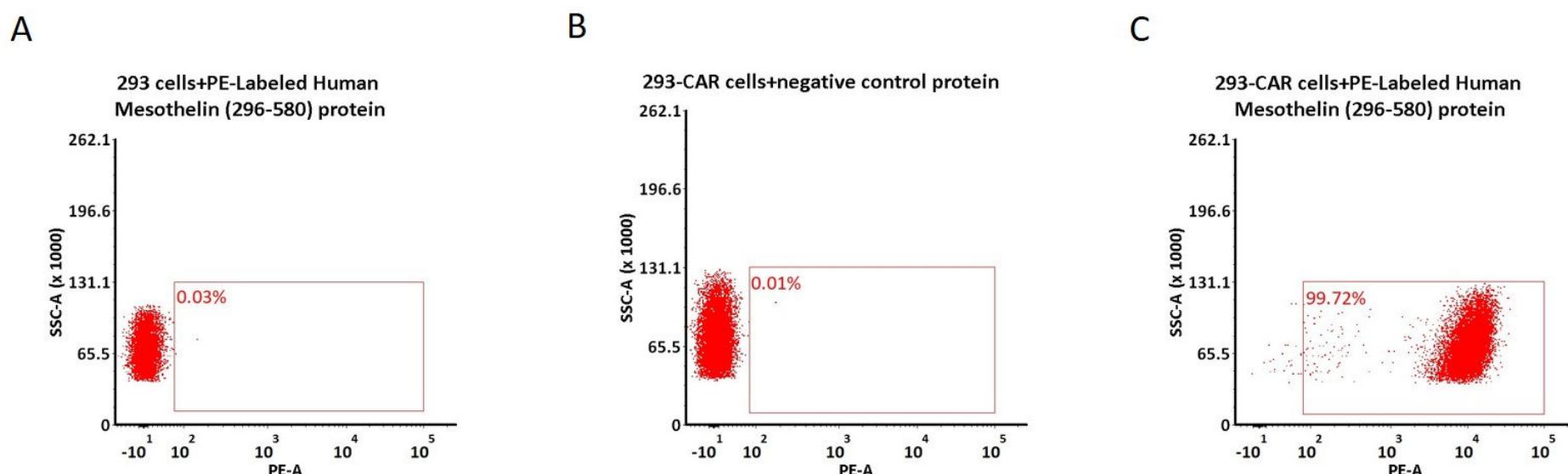
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**Star Staining** fluorescent-labeled products are developed by a new-generation site-specific labeling technology with Star Standard quality at **ACROBiosystems**

- ★ Using new-generation site-specific labeling technology ★ High specificity and sensitivity verified by flow cytometry to maintain natural bioactivity.
- ★ No non-specific binding to non-transduced PBMCs. ★ High homogeneity and high batch-to-batch consistency.

## Evaluation of CAR expression

FACS Analysis of Anti-Mesothelin CAR Expression



5e5 of anti-MSLN CAR-293 cells were stained with 100 µL of 1:50 dilution (2 µL stock solution in 100 µL FACS buffer) of PE-Labeled Human Mesothelin (296-580), His Tag Star staining (Cat. No. MSN-HP2H8) and negative control protein respectively(Fig. C and B), and non- transfected 293 cells were used as a control

Discounts, Gifts,  
and more!



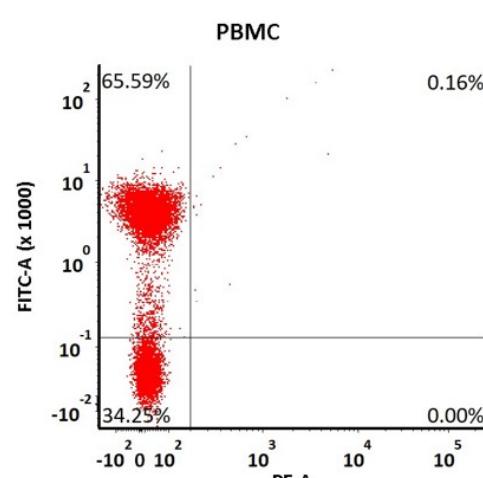
» [www.acrobiosystems.com](http://www.acrobiosystems.com)



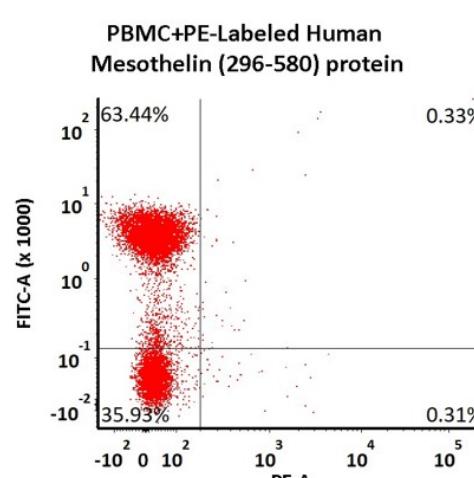
(Fig. A). PE signal was used to evaluate the binding activity (QC tested).

FACS Analysis of Non-specific binding to PBMCs

A



B



5e5 of PBMCs were stained with PE-Labeled Human Mesothelin (296-580), His Tag Star staining (Cat. No. MSN-HP2H8) and anti-CD3 antibody, washed and then analyzed with FACS. FITC signal was used to evaluate the expression of CD3+ T cells in PBMCs, and PE signal was used to evaluate the non-specific binding activity to PBMCs (QC tested).

## Background

Mesothelin (MSLN) is also known as CAK1 antigen, Pre-pro-megakaryocyte-potentiating factor, which belongs to the mesothelin family. Mesothelin / MSLN can be proteolytically cleaved into the following two chains by a furin-like convertase: Megakaryocyte-potentiating factor (MPF) and the cleaved form of mesothelin. Both MPF and the cleaved form of mesothelin are N-glycosylated. Mesothelin / MSLN can interact with MUC16. The membrane-anchored forms of MSLN may play a role in cellular adhesion. MPF potentiates megakaryocyte colony formation in vitro.

Discounts, Gifts,  
and more!



» [www.acrobiosystems.com](http://www.acrobiosystems.com)