

PE-Labeled Human Mesothelin / MSLN (296-580) Protein, His TagStar Staining

Catalog # MSN-HP2H8



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)
AAH09272.1

Poly-his

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.

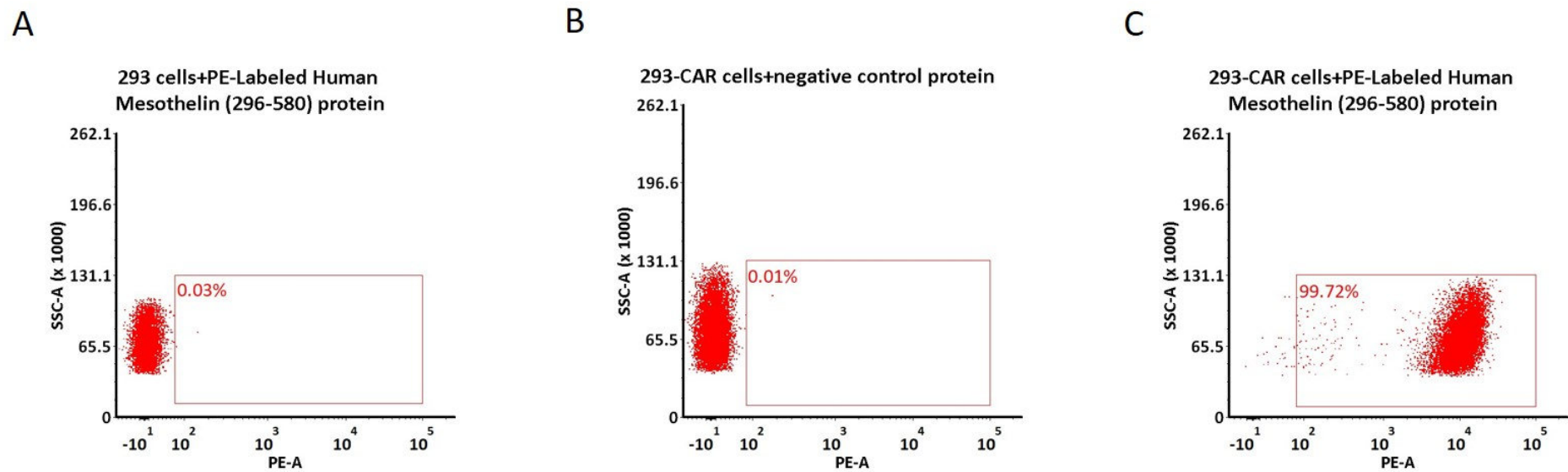
- This product is stable after storage at:
- 20°C to -70°C for 12 months in lyophilized state;
 - 70°C for 3 months under sterile conditions after reconstitution.

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

Evaluation of CAR expression

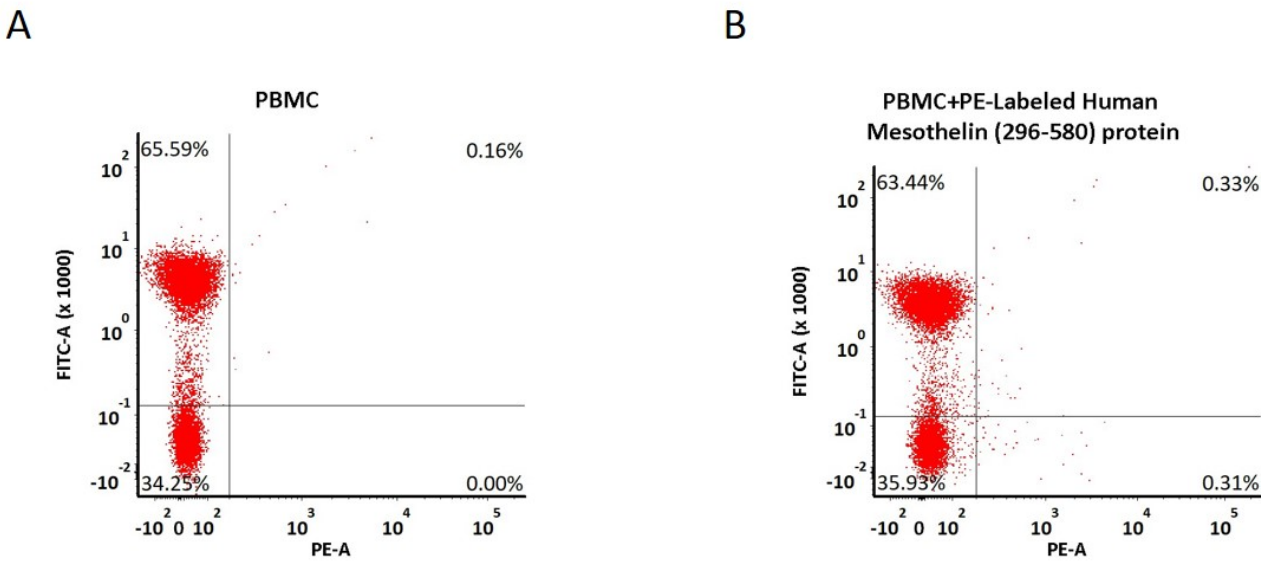
FACS Analysis of Anti-Mesothelin CAR Expression



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

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(Fig. A). PE signal was used to evaluate the binding activity (QC tested).
FACS Analysis of Non-specific binding to PBMCs



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 interacts with MUC16. The membrane-anchored forms of MSLN may play a role in cellular adhesion. MPF potentiates megakaryocyte colony formation in vitro.

