

Synonym

MSLN,Mesothelin,MPF

Source

APC-Labeled Human Mesothelin (296-580), His Tag (MSN-HA2H6) is produced via conjugation of APC 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](#)). Predicted N-terminus: Glu 296

Molecular Characterization

Mesothelin(Glu 296 - Gly 580)  
AAH09272.1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 46.5 kDa.

Conjugate

APC  
Excitation Wavelength: 640 nm  
Emission Wavelength: 661 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.

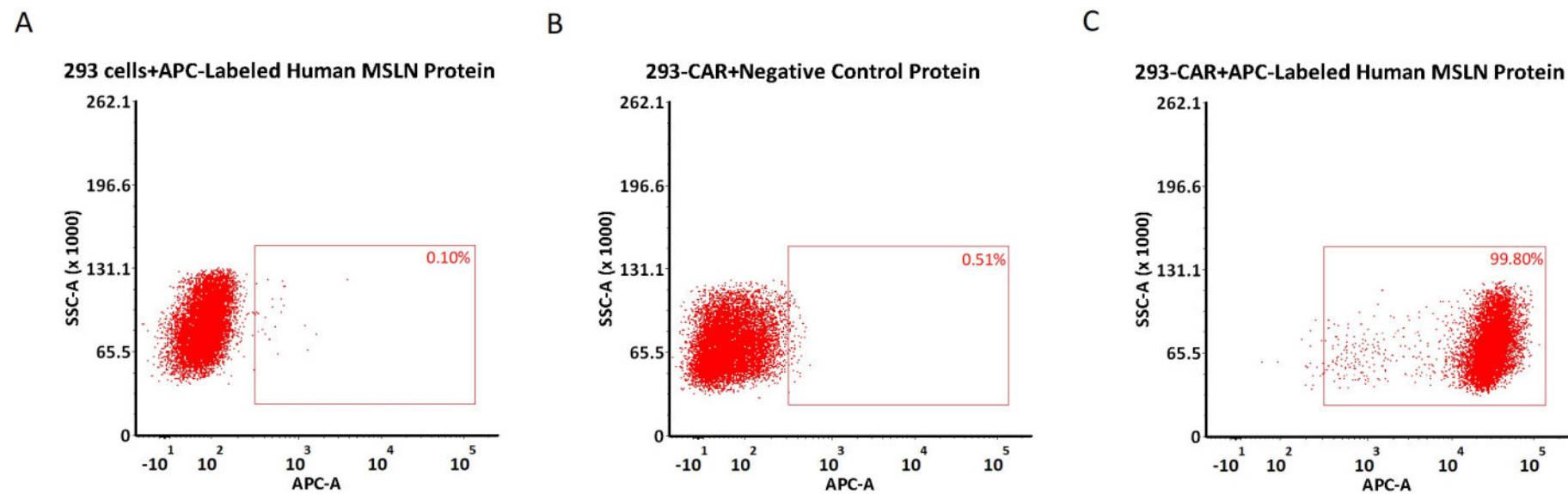
★ High specificity and sensitivity verified by flow cytometry.

★ 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

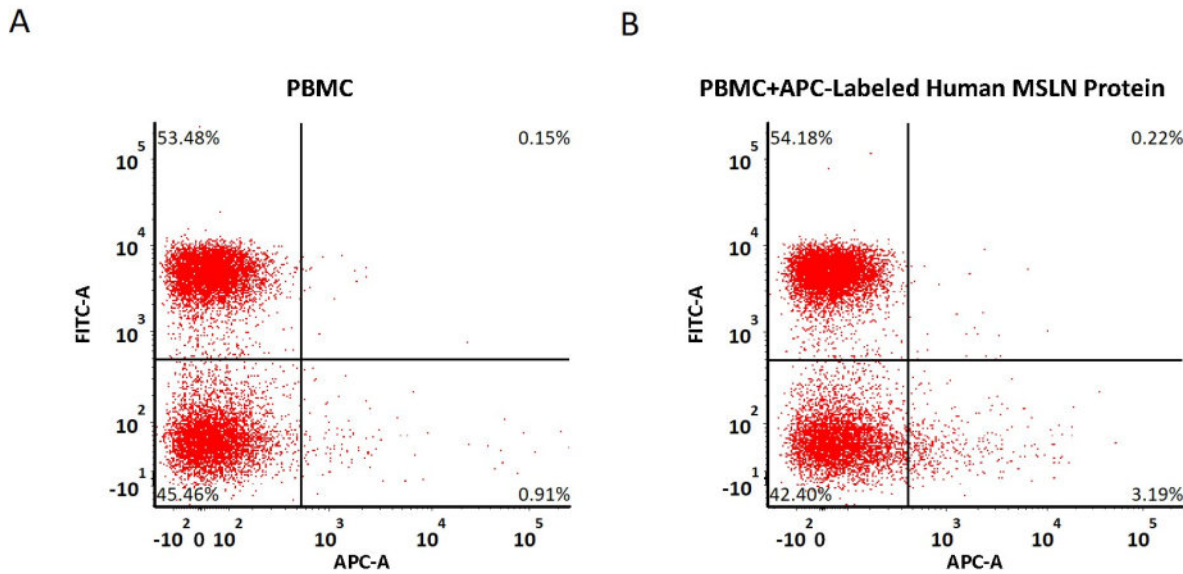


5e5 of anti-MSLN CAR-293 cells were stained with 100 μL of 1:50 dilution (2 μL stock solution in 100 μL FACS buffer) of APC-Labeled Human Mesothelin (296-580), His Tag (Cat. No.MSN-HA2H6) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). APC

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



5e5 of PBMCs were stained with APC-Labeled Human Mesothelin (296-580), His Tag (Cat. No. MSN-HA2H6) 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 APC 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.

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