

APC-Labeled Human CD4 Protein, His TagStar Staining

Catalog # CD4-HA2H9



Synonym

CD4,CD4mut,LEU3

Source

APC-Labeled Human CD4 Protein, His Tag (CD4-HA2H9) is produced via conjugation of APC to Human CD4 Protein, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human CD4 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Lys 26 - Pro 396 (Accession # [AAH25782](#)). Predicted N-terminus: Lys 26

Molecular Characterization

CD4(Lys 26 - Pro 396)
AAH25782

Poly-his

This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 55.8 kDa.

Conjugate

APC
Excitation Wavelength: 640 nm
Emission Wavelength: 661 nm

Purity

>90% as determined by SDS-PAGE.

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.

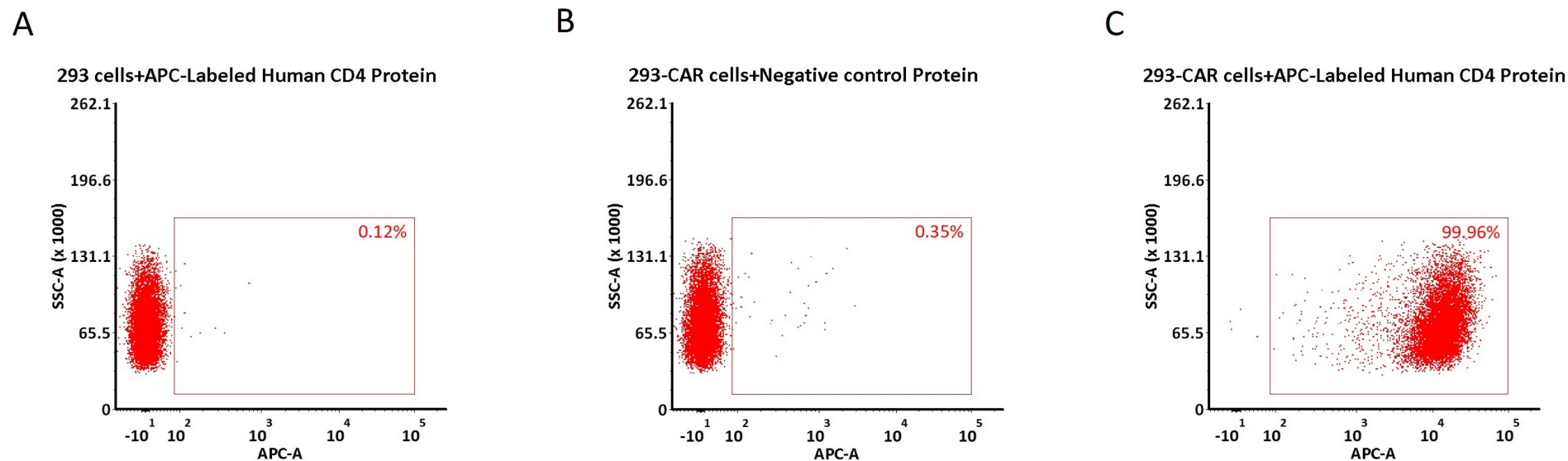
- This product is stable after storage at:
- 20°C to -70°C for 12 months in lyophilized state;
 - 70°C for 3 months under sterile conditions after reconstitution.

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-CD4 CAR Expression



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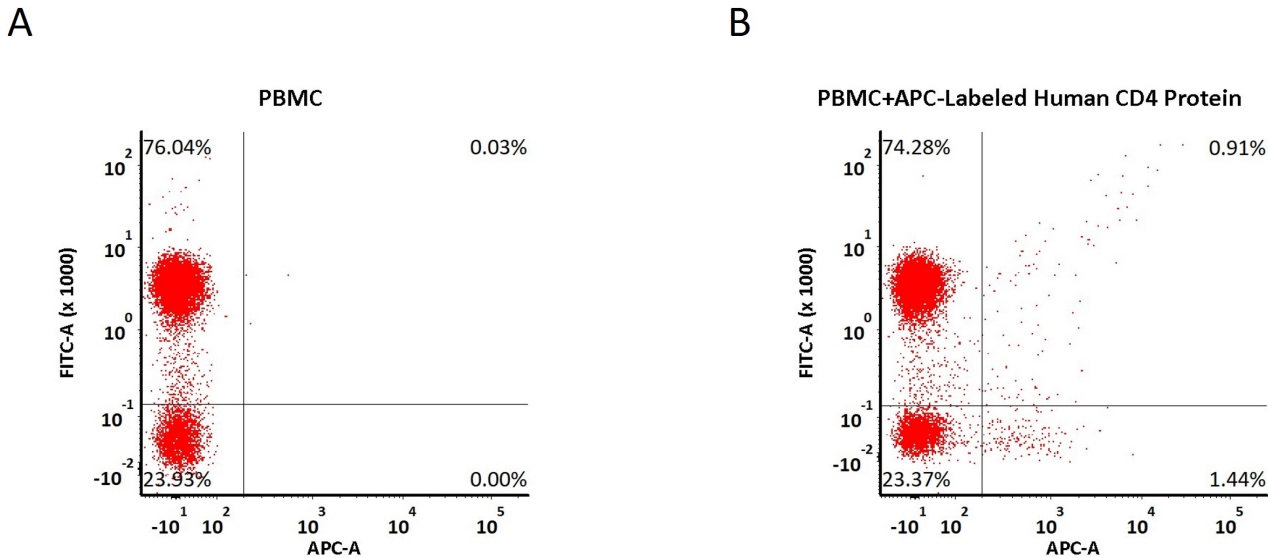
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5e5 of anti-CD4 (Ibalizumab) CAR-293 cells were stained with 100 μ L of 1:50 dilution (2 μ L stock solution in 100 μ L FACS buffer) of APC-Labeled Human CD4 Protein, His Tag (Cat. No. CD4-HA2H9) and negative control protein respectively (Fig. C and B), and non-transfected 293 cells were used as a control (Fig. A). APC 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 CD4 Protein, His Tag (Cat. No. CD4-HA2H9) 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

CD4 is a glycoprotein that serves as an essential co-receptor on the surface of T lymphocytes (T cells), particularly helper T cells. It plays a critical role in the immune system by recognizing and binding to major histocompatibility complex (MHC) class II molecules on antigen-presenting cells (APCs), thereby facilitating T cell activation and immune response.

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