

FITC-Labeled Human CD7 Protein, His Tag

Catalog # CD7-HF2H6



Synonym

CD7,GP40,TP41,LEU-9,Tp40

Source

FITC-Labeled Human CD7, His Tag (CD7-HF2H6) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Pro 180 (Accession # [P09564-1](#)). It is the FITC labeled form of Human CD7, His Tag (CD7-H52H7).  
Predicted N-terminus: Ala 26

Molecular Characterization

CD7(Ala 26 - Pro 180)  
P09564-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 18.3 kDa. The protein migrates as 25-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC  
Excitation source: 488 nm spectral line, argon-ion laser  
Excitation Wavelength: 488 nm  
Emission Wavelength: 535 nm

Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 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.*

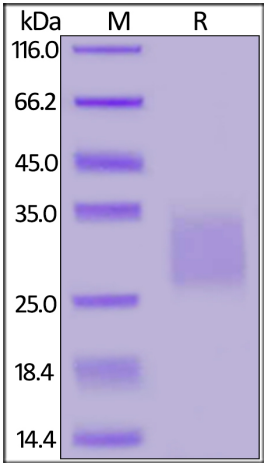
Storage

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.

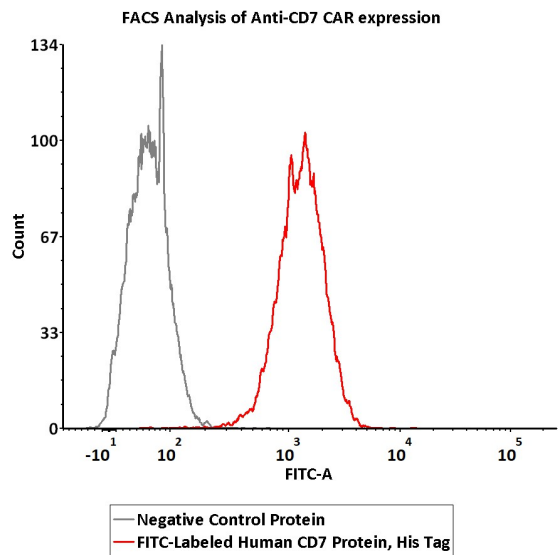
SDS-PAGE



FITC-Labeled Human CD7, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-FACS





2e5 of Anti-CD7 CAR-293 cells were stained with 100  $\mu$ L of 10  $\mu$ g/mL of FITC-Labeled Human CD7, His Tag (Cat. No. CD7-HF2H6) and negative control protein respectively, FITC signals was used to evaluate the binding activity (Routinely tested).

Background

T-cell antigen CD7 (CD7) is also known as GP40, LEU-9, TP41 and Tp40. CD7 is a protein that in humans is encoded by the CD7 gene, this gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. CD7 has been shown to interact with PIK3R1. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.

