

Datasheet for ABIN7274224

CD7 Protein (CD7) (AA 26-180) (Fc Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CD7
Protein Characteristics:	AA 26-180
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD7 protein is labelled with Fc Tag.

Product Details

Purpose:	Human CD7 Protein
Sequence:	Ala26-Pro180
Characteristics:	Recombinant Human CD7 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ala26-Pro180.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human CD7, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-CD7 Antibody, hFc Tag with the EC50 of 12.5ng/ml determined by ELISA. See testing image for detail.

Target Details

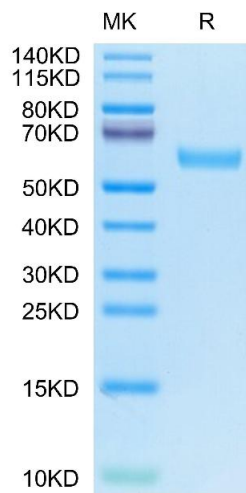
Target:	CD7
Alternative Name:	CD7 (CD7 Products)
Background:	CD7, also known as Leu-9, is an approximately 40 kDa glycosylated and palmitoylated transmembrane protein in the immunoglobulin superfamily. CD7 is expressed on T cells, NK cells, myeloid progenitor cells, and CD19 B progenitor cells. Among CD8 T cells, the CD7-bright population preferentially contains naive and memory cells, while more weak expressors are primarily effector cells.
Molecular Weight:	43.19 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.
UniProt:	P09564
Pathways:	Cell-Cell Junction Organization

Application Details

Restrictions:	For Research Use only
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Handling

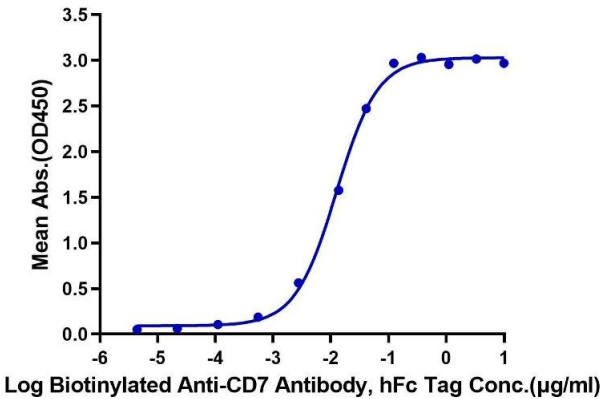
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

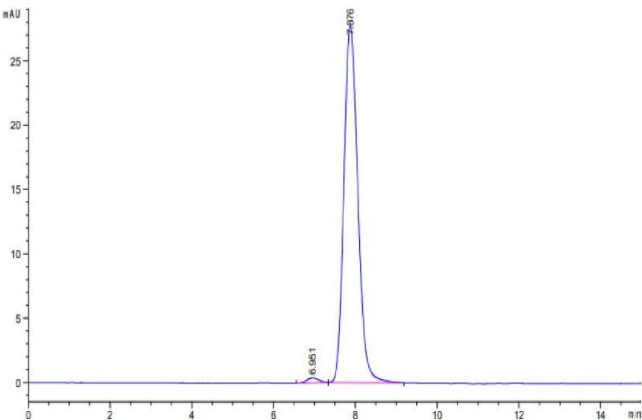
Image 1. Human CD7 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Human CD7, hFc Tag ELISA
0.05µg Human CD7, hFc Tag Per Well



ELISA

Image 2. Immobilized Human CD7, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-CD7 Antibody, hFc Tag with the EC50 of 12.5 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human CD7 is greater than 95 % as determined by SEC-HPLC.