Datasheet for ABIN1096774

CD7 Protein (CD7) (AA 26-180) (His tag)

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Overview

Quantity:	50 µg
Target:	CD7
Protein Characteristics:	AA 26-180
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD7/Leu-9 (C-6His)
Sequence:	AQEVQQSPHC TTVPVGASVN ITCSTSGGLR GIYLRQLGPQ PQDIIYYEDG VVPTTDRRFR GRIDFSGSQD NLTITMHRLQ LSDTGTYTCQ AITEVNVYGS GTLVLVTEEQ SQGWHRCSDA PPRASALPAP PTGSALPDPQ TASALPDPPA ASALPVDHHH HHH
Characteristics:	Recombinant Human CD7/Leu-9 (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CD7

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Target Details

Alternative Name:	CD7 (CD7 Products)
Background:	Recombinant Human T-Cell Antigen CD7/CD7 produced by transfected human cells is a secreted protein with sequence (Ala26-Pro180) of Human CD7 fused with a polyhistidine tag at the C-terminus. T-Cell Antigen CD7 is a single-pass type I membrane protein that that belongs to the the immunoglobulin superfamily. Human CD7 is synthesized as a 240 AA precursor that contains a 25 AA signal sequence and a 215 AA mature chain with a Ig-like (immunoglobulin-like) domain. CD7 is normally expressed on all T-lymphocytes, NK-cells, pre-B lymphocytes and pleuripotent hematopoietic stem cells. CD7 plays an essential role in T-cell interactions, T-cell/B-cell interaction during early lymphoid development, T- and NK-cell activation and cytokine production. CD7 has been shown to interact with PIK3R1and SECTM1. However, the function of the CD7 protein in the immune system is still largely unknown.
Molecular Weight:	17.47 kDa
UniProt:	P09564
Pathways:	Cell-Cell Junction Organization

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

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