Datasheet for ABIN7317503

SLAMF7 Protein (His tag)

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Overview

Quantity:	100 µg
Target:	SLAMF7
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SLAMF7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human SLAMF7/CD319 Protein (His Tag)(Active)
Sequence:	Met 1-Met 226
Characteristics:	A DNA sequence encoding the human SLAMF7 (NP_067004.3) extracellular domain (Met 1-Met 226) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 93 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind biotinylated human SH2D1A-His in a functional ELISA.

Target Details

Target:	SLAMF7
Alternative Name:	SLAMF7/CD319 (SLAMF7 Products)

Target Details

Background:	Background: SLAM family member 7 (SLAMF7), also known as CRACC, CD319, CD2-like receptor-activating cytotoxic cells, and CS1, is a single-pass type I membrane protein and a member of the CD2 family of cell surface receptors. SLAMF7 is expressed in NK cells, activated B-cells, NK-cell line but not in promyelocytic, B-cell lines, or T-cell lines. Although the cytoplasmic domain of CS1 contains immunoreceptor tyrosine-based switch motifs (ITSM), which enables to recruite signaling lymphocyte activation molecule (SLAM)-associated protein (SAP/SH2D1A), it activates NK cells in the absence of a functional SAP. CS1 is a self ligand and homophilic interaction of CS1 regulates NK cell cytolytic activity. CRACC positively regulated natural killer cell functions by a mechanism dependent on the adaptor EAT-2 but not the related adaptor SAP. However, in the absence of EAT-2, CRACC potently inhibited natural killer cell function. It was also inhibitory in T cells, which are typically devoid of EAT-2. Thus, CRACC can exert activating or inhibitory influences on cells of the immune system depending on cellular context and the availability of effector proteins. Synonym: SLAM Family Member 7, CD2 Subset 1, CD2-Like Receptor-Activating Cytotoxic Cells, CRACC, Membrane Protein FOAP-12, Novel Ly9, Protein 19A, CD319, SLAMF7, CS1,SLAM7
Molecular Weight:	23.8 kDa
NCBI Accession:	NP_067004

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.