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Datasheet for ABIN1096434  
**SLAMF7 Protein (AA 23-225) (His tag)**

### Overview

Quantity:	50 µg
Target:	SLAMF7
Protein Characteristics:	AA 23-225
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLAMF7 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human SLAM Family Member 7/SLAMF7/CD319/CRACC (C-6His)
Sequence:	SGPVKELVGS VGGAVTFPLK SKVKQVDSIV WTFNTTPLVT IQPEGGTIIV TQNRNRERVD FPDGGYSLKL SKLKKNDSDGI YYVGIYSSSL QQPSTQEYVL HVYEHLSKPK VTMGLQSNKN GTCVTNLTCC MEHGEEDVIY TWKALGQAAN ESHNGSILPI SWRWGESDMT FICVARNPVS RNFSSPILAR KLCEGAADDP DSSVDHHHHH H
Characteristics:	Recombinant Human SLAM Family Member 7/SLAMF7 produced by transfected human cells is a secreted protein with sequence (Ser23-Ser225) of Human SLAMF7 fused with a polyhistidine tag at the C-terminus.
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

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Target:	SLAMF7
Alternative Name:	slamf7 ( <a href="#">SLAMF7 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>SLAMF7 is a single-pass type I membrane protein and contains 1 Ig-like C2-type (immunoglobulin-like) domain. 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 recruit signaling lymphocyte activation molecule (SLAM)-associated protein (SAP/SH2D1A), it activates NK cells in the absence of a functional SAP. SLAMF7 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, SLAMF7 can exert activating or inhibitory influences on cells of the immune system depending on cellular context and the availability of effector proteins.</p> <p>Alternative Names: 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</p>
Molecular Weight:	23.3 kDa
UniProt:	<a href="#">Q9NQ25</a>

## Application Details

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Restrictions: For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

## Handling

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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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Expiry Date: 3 months