

ARG70266

Human CD319 / SLAMF7 recombinant protein (ECD) (Fc-His-tagged, C-ter)

Package: 100 µg

Store at: -20°C

Summary

Product Description	HEK293 expressed, Fc-His-tagged (C-ter) Human CD319 / SLAMF7 recombinant protein (ECD).
Tested Reactivity	Hu
Tested Application	Binding, ELISA, SDS-PAGE
Target Name	CD319 / SLAMF7 (ECD)
Species	Human
A.A. Sequence	Ser23 - Met226 of Human CD319 / SLAMF7 (NP_067004.3) with an Fc-6X His tag at the C-terminus.
Expression System	HEK293
Alternate Names	CD2-like receptor-activating cytotoxic cells; Protein 19A; CS1; Membrane protein FOAP-12; 19A; CD antigen CD319; SLAM family member 7; CD319; CD2 subset 1; Novel Ly9; CRACC

Application Instructions

Application Note	Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human SLAMF7 at 2µg/ml (100 µl/well) can bind Anti-SLAMF7 antibody with a linear range of 60-150 ng/ml.
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Properties

Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	SLAMF7
Gene Full Name	SLAM family member 7
Function	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. Isoform 1 mediates NK cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway

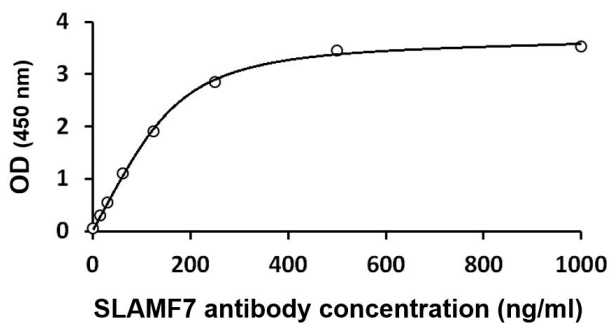
(PubMed:11698418). Positively regulates NK cell functions by a mechanism dependent on phosphorylated SH2D1B. Downstream signaling implicates PLCG1, PLCG2 and PI3K (PubMed:16339536). In addition to heterotypic NK cells-target cells interactions also homotypic interactions between NK cells may contribute to activation. However, in the absence of SH2D1B, inhibits NK cell function. Acts also inhibitory in T-cells (By similarity). May play a role in lymphocyte adhesion (PubMed:11802771). In LPS-activated monocytes negatively regulates production of proinflammatory cytokines (PubMed:23695528).

Isoform 3 does not mediate any NK cell activation. [UniProt]

Calculated Mw 37 kDa

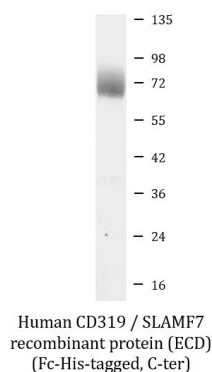
Cellular Localization Membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG70266 Human CD319 / SLAMF7 recombinant protein (ECD) (Fc-His-tagged, C-ter) ELISA image

ELISA: The plate was coated with ARG70266 Human CD319 / SLAMF7 recombinant protein (ECD) (Fc-His-tagged, C-ter) at 2 µg/ml (100 µl/well). Samples were detected with serially diluted anti-SLAMF7 antibody.



ARG70266 Human CD319 / SLAMF7 recombinant protein (ECD) (Fc-His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70266 Human CD319 / SLAMF7 recombinant protein (ECD) (Fc-His-tagged, C-ter).