

Product datasheet for **AR52013PU-S**

CD319 / SLAMF7 (23-226, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	CD319 / SLAMF7 (23-226, His-tag) human protein, 50 µg
Species:	Human
Expression Host:	Insect
Expression cDNA Clone or AA Sequence:	SGPVKELVGS VGGAVTFPLK SKVKQVDSIV WTFNTTPLVT IQPEGGTIIV TQNRNRERVD FPDGGYSLKL SKLKKNDSDGI YYVGIYSSSL QQPSTQEYVL HVYEHLSPKPK VTMGLQSNKN GTCVTNLTCC MEHGEEDVIY TWKALGQAAN ESHNGSILPI SWRWGESDMT FICVARNPVS RNFSSPILAR KLCEGAADDP DSSMLEHHHH HH
Tag:	His-tag
Predicted MW:	23.4 kDa
Concentration:	lot specific
Purity:	>95% by SDS – PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Endotoxin:	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001269517
Locus ID:	57823
UniProt ID:	Q9NQ25
Cytogenetics:	1q23.3
Synonyms:	19A; CD319; CRACC; CS1



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Summary:

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).[UniProtKB/Swiss-Prot Function]

Protein Families:

Druggable Genome, Transmembrane

Product images: