

Anti-CD319 Antibody

Catalog # AP96054

Product Information

Application	WB, IHC, FC
Primary Accession	Q9NQ25
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	37421

Additional Information

Gene ID	57823
Other Names	CS1; SLAM family member 7; CD2 subset 1; CD2-like receptor-activating cytotoxic cells; CRACC; Membrane protein FOAP-12; Novel Ly9; Protein 19A; CD319
Target/Specificity	Recombinant fusion protein of human CD319 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

Protein Information

Name	SLAMF7
Synonyms	CS1
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. Also acts inhibitory in T-cells (By similarity). May play a role in

lymphocyte adhesion (PubMed:[11802771](#)). In LPS-activated monocytes negatively regulates production of pro-inflammatory cytokines (PubMed:[23695528](#)).

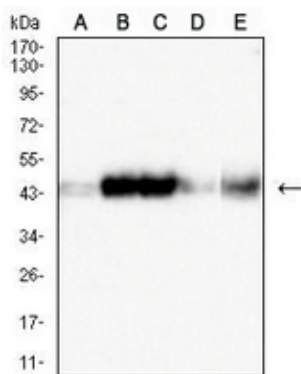
Cellular Location

Membrane; Single-pass type I membrane protein.

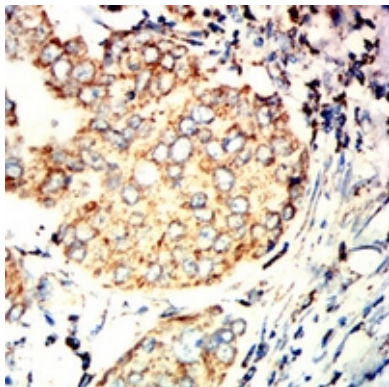
Tissue Location

Expressed in spleen, lymph node, peripheral blood leukocytes, bone marrow, small intestine, stomach, appendix, lung and trachea. Expression was detected in NK cells, activated B-cells, NK- cell line but not in promyelocytic, B-, or T-cell lines. Expressed in monocytes. Isoform 3 is expressed at much lower level than isoform 1

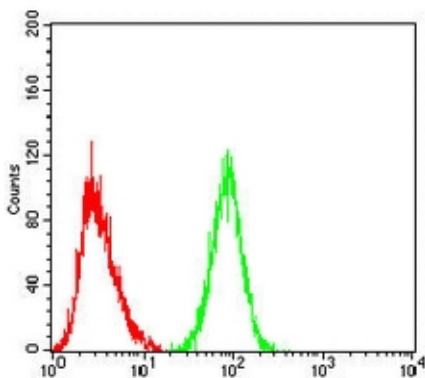
Images



Western blot analysis of CD319 expression in K562 (A), HL60 (B), Ramos (C), Jurkat (D), THP1 (E) whole cell lysates. (Predicted band size: 37 kD; Observed band size: 43 kD)



Immunohistochemical analysis of CD319 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of K562 cells using Anti-CD319 Antibody (green) and negative control (red).

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