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SLAMF6 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16063b

Specification

SLAMF6 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q96DU3

SLAMF6 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 114836

Other Names
SLAM family member 6, Activating NK receptor, NK-T-B-antigen, NTB-A, CD352, SLAMF6, KALI

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SLAMF6 Antibody (C-term) Blocking Peptide - Protein Information

Name SLAMF6

Synonyms KALI

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. Triggers cytolytic activity only in natural killer cells (NK) expressing high surface densities of natural cytotoxicity receptors (PubMed:11489943, PubMed:16920955). Positive signaling in NK cells implicates phosphorylation of VAV1. NK cell activation seems to depend on SH2D1B and not on SH2D1A (PubMed:16920955). In conjunction with SLAMF1 controls the transition between positive selection and the subsequent expansion and differentiation of the thymocytic natural killer T (NKT) cell lineage (By similarity). Promotes T-cell differentiation into a helper T-cell Th17 phenotype leading to increased IL-17 secretion; the costimulatory activity requires SH2D1A (PubMed:22184727, PubMed:<a

href="http://www.uniprot.org/citations/16920955" target="_blank">16920955). Promotes recruitment of RORC to the IL-17 promoter (PubMed:22989874). In conjunction with SLAMF1 and CD84/SLAMF5 may be a negative regulator of the humoral immune response. In the absence of SH2D1A/SAP can transmit negative signals to CD4(+) T- cells and NKT cells. Negatively regulates germinal center formation by inhibiting T-cell:B-cell adhesion; the function probably implicates increased association with PTPN6/SHP-1 via ITSMs in absence of SH2D1A/SAP. However, reported to be involved in maintaining B-cell tolerance in germinal centers and in preventing autoimmunity (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein

Tissue Location
Expressed by all (resting and activated) natural killer cells (NK), T- and B-lymphocytes (PubMed:11489943). Increased surface expression on T-cells of systemic lupus erythematosus (SLE) patients (PubMed:22184727).

SLAMF6 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SLAMF6 Antibody (C-term) Blocking Peptide - Images

SLAMF6 Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene is a type I transmembraneprotein, belonging to the CD2 subfamily of the immunoglobulinsuperfamily. This encoded protein is expressed on Natural killer(NK), T, and B lymphocytes. It undergoes tyrosine phosphorylationand associates with the Src homology 2 domain-containing protein(SH2D1A) as well as with SH2 domain-containing phosphatases (SHPs).It functions as a coreceptor in the process of NK cell activation.It can also mediate inhibitory signals in NK cells from X-linkedlymphoproliferative patients. Alternative splicing results inmultiple transcript variants encoding distinct isoforms.

SLAMF6 Antibody (C-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Davila, S., et al. Genes Immun. 11(3):232-238(2010)Need, A.C., et al. Hum. Mol. Genet. 18(23):4650-4661(2009)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)