

Goat Anti-SH2D1A/SLAM associated protein Antibody
Peptide-affinity purified goat antibody
Catalog # AF1985b

Specification

Goat Anti-SH2D1A/SLAM associated protein Antibody - Product Information

Application	WB
Primary Accession	O60880
Other Accession	NP_001108409 , 4068
Reactivity	Human
Predicted	Pig
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	14187

Goat Anti-SH2D1A/SLAM associated protein Antibody - Additional Information

Gene ID 4068

Other Names

SH2 domain-containing protein 1A, Duncan disease SH2-protein, Signaling lymphocytic activation molecule-associated protein, SLAM-associated protein, T-cell signal transduction molecule SAP, SH2D1A, DSHP, SAP

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SH2D1A/SLAM associated protein Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SH2D1A/SLAM associated protein Antibody - Protein Information

Name SH2D1A

Synonyms DSHP, SAP

Function

Cytoplasmic adapter regulating receptors of the signaling lymphocytic activation molecule (SLAM) family such as SLAMF1, CD244, LY9, CD84, SLAMF6 and SLAMF7. In SLAM signaling seems to

cooperate with SH2D1B/EAT-2. Initially it has been proposed that association with SLAMF1 prevents SLAMF1 binding to inhibitory effectors including INPP5D/SHIP1 and PTPN11/SHP-2 (PubMed:11806999). However, by simultaneous interactions, recruits FYN which subsequently phosphorylates and activates SLAMF1 (PubMed:12458214). Positively regulates CD244/2B4- and CD84-mediated natural killer (NK) cell functions. Can also promote CD48-, SLAMF6 -, LY9-, and SLAMF7-mediated NK cell activation. In the context of NK cell-mediated cytotoxicity enhances conjugate formation with target cells (By similarity). May also regulate the activity of the neurotrophin receptors NTRK1, NTRK2 and NTRK3.

Cellular Location

Cytoplasm.

Tissue Location

Expressed at a high level in thymus and lung, with a lower level of expression in spleen and liver. Expressed in peripheral blood leukocytes, including T-lymphocytes. Tends to be expressed at lower levels in peripheral blood leukocytes in patients with rheumatoid arthritis.

Goat Anti-SH2D1A/SLAM associated protein Antibody - Protocols

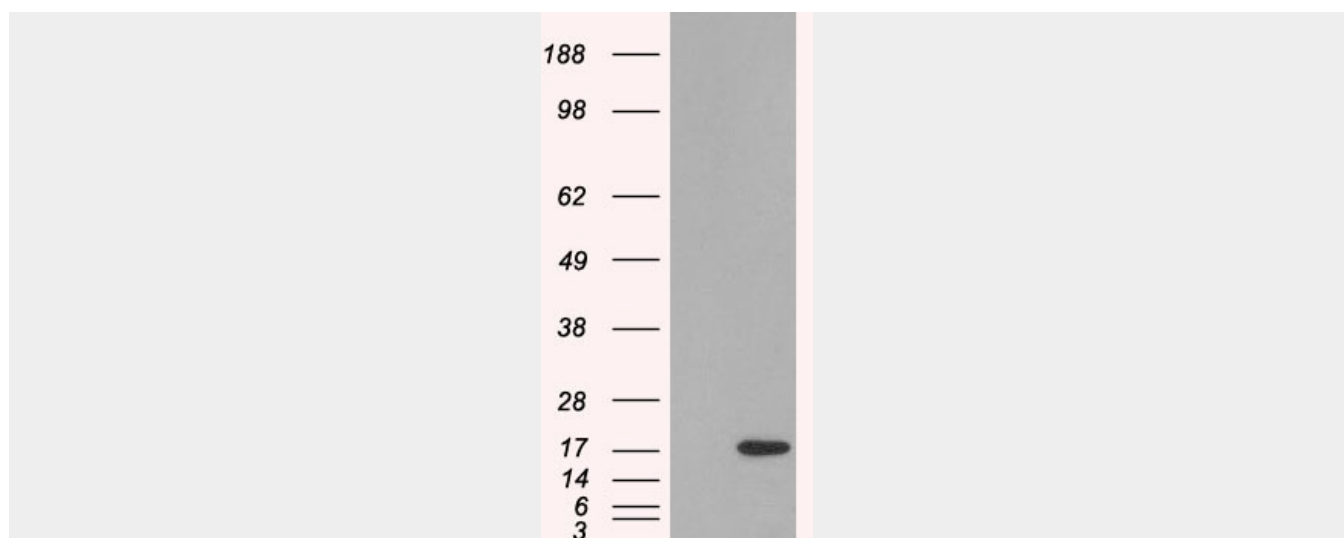
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-SH2D1A/SLAM associated protein Antibody - Images



AF1985b (0.2 µg/ml) staining of human lymph node lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



HEK293 overexpressing SH2D1A (RC204723) and probed with AF1985b (mock transfection in first lane), tested by Origene.

Goat Anti-SH2D1A/SLAM associated protein Antibody - Background

This gene encodes a protein that plays a major role in the bidirectional stimulation of T and B cells. This protein contains an SH2 domain and a short tail. It associates with the signaling lymphocyte-activation molecule, thereby acting as an inhibitor of this transmembrane protein by blocking the recruitment of the SH2-domain-containing signal-transduction molecule SHP-2 to its docking site. This protein can also bind to other related surface molecules that are expressed on activated T, B and NK cells, thereby modifying signal transduction pathways in these cells. Mutations in this gene cause lymphoproliferative syndrome X-linked type 1 or Duncan disease, a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus, with symptoms including severe mononucleosis and malignant lymphoma. Multiple transcript variants encoding different isoforms have been found for this gene.

Goat Anti-SH2D1A/SLAM associated protein Antibody - References

Customised molecular diagnosis of primary immune deficiency disorders in New Zealand: an efficient strategy for a small developed country. Ameratunga R, et al. N Z Med J, 2009 Oct 9. PMID 19859091.

Restimulation-induced apoptosis of T cells is impaired in patients with X-linked lymphoproliferative disease caused by SAP deficiency. Snow AL, et al. J Clin Invest, 2009 Oct. PMID 19759517.

The proapoptotic function of SAP provides a clue to the clinical picture of X-linked lymphoproliferative disease. Nagy N, et al. Proc Natl Acad Sci U S A, 2009 Jul 21. PMID 19570996. SAP binds to CD22 and regulates B cell inhibitory signaling and calcium flux. Ostrakhovitch EA, et al. Cell Signal, 2009 Apr. PMID 19150402.

SLAM receptors and SAP influence lymphocyte interactions, development and function. Schwartzberg PL, et al. Nat Rev Immunol, 2009 Jan. PMID 19079134.