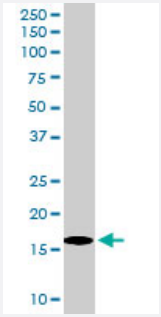
SH2D1A polyclonal antibody

Catalog # PAB6907 Size 100 ug

Applications



Western Blot (Tissue lysate)

SH2D1A polyclonal antibody (Cat # PAB6907) (0.2 ug/mL) staining of human lymph node lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of SH2D1A.
Immunogen	A synthetic peptide corresponding to human SH2D1A.
Sequence	C-QYPVEKKSSARSTQ
Host	Goat
Theoretical MW (kDa)	14.2, 13.9
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:32000) Western Blot (0.2-0.6 ug/mL) The optimal working dilution should be determined by the end user.

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Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Tissue lysate)

  SH2D1A polyclonal antibody (Cat # PAB6907) (0.2 ug/mL) staining of human lymph node lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Gene Info — SH2D1A

Entrez GeneID	4068
Protein Accession#	NP_002342.1
Gene Name	SH2D1A
Gene Alias	DSHP, EBVS, FLJ18687, FLJ92177, IMD5, LYP, MTCP1, SAP, XLP, XLPD
Gene Description	SH2 domain protein 1A
Omim ID	300490 308240
Gene Ontology	Hyperlink
Gene Summary	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 r ecruitment 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 includi ng severe mononucleosis and malignant lymphoma. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	Duncan's disease|OTTHUMP00000023976|SLAM-associated protein|T cell signal transduction molecule SAP|signaling lymphocyte activation molecule-associated protein

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Publication Reference

- Differential expression of SAP and EAT-2-binding leukocyte cell-surface molecules CD84, CD150 (SLAM), CD229 (Ly9) and CD244 (2B4).

  Romero X, Benitez D, March S, Vilella R, Miralpeix M, Engel P.

  Tissue Antigens 2004 Aug; 64(2):132.

  Application: Flow Cyt, Human, NK cells, T cells, Thymocytes from peripheral blood

Pathway

- Natural killer cell mediated cytotoxicity

Disease

- Common Variable Immunodeficiency
- Epstein-Barr Virus Infections
- Genetic Predisposition to Disease
- Immunologic Deficiency Syndromes
- Infectious Mononucleosis
- Lymphoma
- Lymphoproliferative Disorders
- Severe Combined Immunodeficiency

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