

Rabbit SH2D1A Polyclonal Antibody | anti-SH2D1A antibody

SH2D1A Antibody

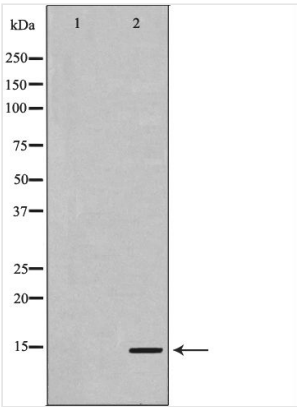
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326057	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

SH2D1A; Polyclonal Antibody; SH2D1A Antibody; DSHP; Duncan disease SH2 protein; Duncan disease SH2-protein; EBVS; IMD5; LYP; MTCP1; SAP; SAP/SH2D1A; SH2 domain containing 1A; SH2 domain protein 1A; SH2 domain-containing protein 1A; SH21A_HUMAN; Signaling lymphocyte activation molecule associated protein; Signaling lymphocytic activation molecule-associated protein; SLAM associated protein; SLAM associated protein/SH2 domain protein 1A; SLAM-associated protein; T cell signal transduction molecule SAP; T-cell signal transduction molecule SAP; XLP; XLPD; anti-SH2D1A antibody

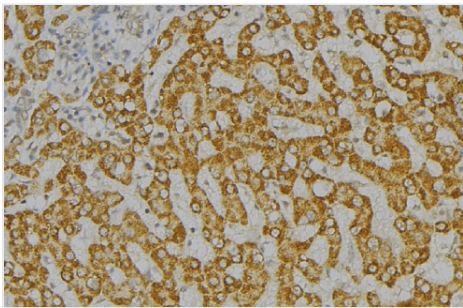
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SH2D1A antibody detects endogenous levels of total SH2D1A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	125
Applicable Applications for anti-SH2D1A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SH2D1A
Subcellular Location	Cytoplasm.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (86%), Bovine (86%), Horse (86%), Sheep (86%), Rabbit (86%), Dog (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of thymus lysate using SH2D1A antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326057 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-SH2D1A antibody

Description: SH2D1A and SH2D1B are small, adaptor proteins with a single SH2-domain that play important signal transduction roles mediated by the signaling lymphocytic activation molecule (SLAM) family receptors (1). SH2D1A (also called SAP or SLAM-associated protein) is frequently mutated in patients with X-linked lymphoproliferative disease (Duncan's disease), which is characterized by extreme susceptibility to Epstein-Barr virus; approximately 50 different SH2D1A mutations have been reported to date (2-4). The single SH2D1B gene in humans (also called EAT-2 or Ewing's sarcoma's/FLI1-activated transcript 2) is present as a pair of duplicated EAT-2A and EAT-2B genes with identical genomic organization in mouse and rat (5, 6).

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.

Subunit Structure: Interacts with NTRK1, NTRK2 and NTRK3 (By similarity). Interacts with CD84, CD244, LY9, SLAMF1 and FYN.

NCBI AND UNIPROT INFORMATION

NCBI GI #	169234945
NCBI GeneID	4068
NCBI Accession #	NP_001108409.1
NCBI GenBank Nucleotide #	NM_001114937.2
UniProt Accession #	O60880; O95383; O95384; O95385; O95386; Q6FGS6; Q9UNR0; A8MSW0
Molecular Weight	Observed: 14 kDa Predicted: 15 kDa
NCBI Official Full Name	SH2 domain-containing protein 1A isoform 2
NCBI Official Synonym Full Names	SH2 domain containing 1A
NCBI Official Symbol	SH2D1A
NCBI Official Synonym Symbols	LYP; SAP; XLP; DSHP; EBVS; IMD5; XLPD; MTCP1; XLPD1; SAP/SH2D1A
NCBI Protein Information	SH2 domain-containing protein 1A

UniProt Protein Name	SH2 domain-containing protein 1A
UniProt Gene Name	SH2D1A
UniProt Synonym Gene Names	DSHP; SAP; SLAM-associated protein

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sh2d1a-antibody-immunohistochemistry-western-blot-elisa/326057>