

Rabbit SH2B1 Polyclonal Antibody | anti-SH2B1 antibody

SH2B1 Antibody

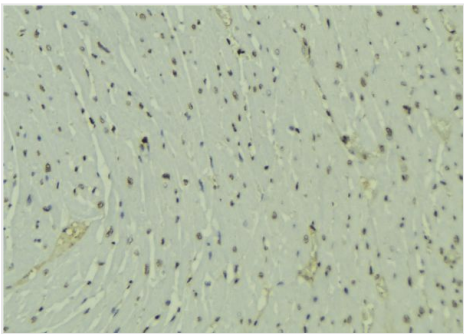
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327105	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

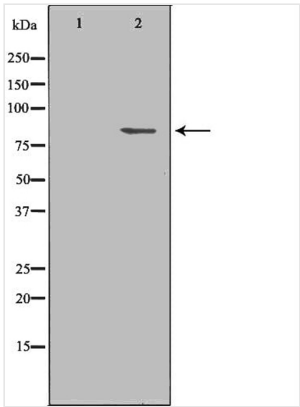
SH2B1; Polyclonal Antibody; SH2B1 Antibody; DKFZp547G1110; FLJ30542; KIAA1299; PH and SH2 domain-containing signaling mediator; Pro-rich; PSM; SH2 B; SH2 domain-containing protein 1B; SH2 domain-containing putative adapter SH2-B; SH2-B signaling protein; SH2B; SH2B adapter protein 1; SH2B adaptor protein 1; Sh2b1; SH2B1 protein; SH2B1_HUMAN; anti-SH2B1 antibody

PRODUCT SPECIFICATIONS

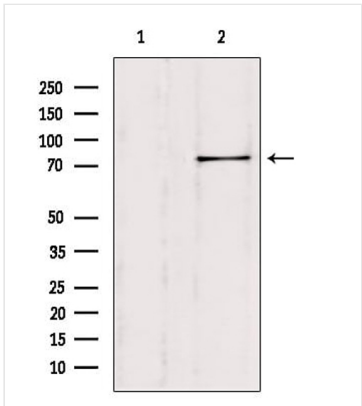
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SH2B1 antibody detects endogenous levels of total SH2B1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	756
Applicable Applications for anti-SH2B1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SH2B1
Subcellular Location	Cytoplasm. Membrane. Nucleus. Shuttles between the nucleus and the cytoplasm.
Tissue Specificity	Widely expressed with highest levels in skeletal muscle and ovary.
Predicted Cross Reactivity	Horse, Sheep, Dog
Similarity	Horse (100%), Sheep (92%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemisry)
AAA327105 at 1/100 staining Mouse muscle 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.



WB (Western Blot)
Western blot analysis of Mouse brain lysate, using SH2B1 Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from Hela, using SH2B1 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SH2B1 antibody	Description: This gene encodes a member of the SH2-domain containing mediators family. The encoded protein mediates activation of various kinases and may function in cytokine and growth factor receptor signaling and cellular transformation. Alternatively spliced transcript variants have been described. Function: Adapter protein for several members of the tyrosine kinase receptor family. Involved in multiple signaling pathways mediated by Janus kinase (JAK) and receptor tyrosine kinases, including the receptors of insulin (INS), insulin-like growth factor I (IGF1), nerve growth factor (NGF), brain-derived neurotrophic factor (BDNF), glial cell line-derived neurotrophic factor (GDNF), platelet-derived growth factor (PDGF) and fibroblast growth factors (FGFs). In growth hormone (GH) signaling, autophosphorylated ('Tyr-813') JAK2 recruits SH2B1, which in turn is phosphorylated by JAK2 on tyrosine residues. These phosphotyrosines form potential binding sites for other signaling proteins. GH also promotes serine/threonine phosphorylation of SH2B1 and these phosphorylated residues may serve to recruit other proteins to the GHR-JAK2-SH2B1 complexes, such as RAC1. In leptin (LEP) signaling, binds to and potentiates the activation of JAK2 by globally enhancing downstream pathways. In response to leptin, binds simultaneously to both, JAK2 and IRS1 or IRS2, thus mediating formation of a complex of JAK2, SH2B1 and IRS1 or IRS2. Mediates tyrosine phosphorylation of IRS1 and IRS2, resulting in activation of the PI 3-kinase pathway. Acts as positive regulator of NGF-mediated activation of the Akt/Forkhead pathway; prolongs NGF-induced phosphorylation of AKT1 on 'Ser-473' and AKT1 enzymatic activity. Enhances the kinase activity of the cytokine receptor-associated tyrosine kinase JAK2 and of other receptor tyrosine kinases, such as FGFR3 and NTRK1. For JAK2, the mechanism seems to involve dimerization of both, SH2B1 and JAK2. Enhances RET phosphorylation and kinase activity. Isoforms seem to be differentially involved in IGF-I and PDGF-induced mitogenesis (By similarity). Subunit Structure: Self-associates. Homopentamer (By similarity). Forms a heteromultimeric complex with SH2B2 (By similarity). Interacts with SH2B2. Isoform 1 interacts via its SH2 domain with JAK2. Isoform 2 interacts via its SH2 domain and its N-terminus with JAK2; the SH2 domain is required for the major interaction with JAK2 phosphorylated on tyrosine residues; the N-terminus provides a low-affinity binding to JAK2 independent of JAK2 phosphorylation. Isoform 3 interacts via its SH2 domain with JAK2. Isoform 1 interacts via its SH2 domain with INSR; the interaction requires receptor activation. Isoform 3 interacts via its SH2 domain with INSR; the interaction requires receptor activation and requires INSR phosphorylation at 'Tyr-1185'. Isoform 1 interacts with IGF1R; the interaction requires receptor activation. Isoform 2 interacts with PRKAR1A/RET (PTC2) fusion protein; the interaction requires RET 'Tyr-905' and Tyr-981'. Isoform 2 interacts via its SH2 domain with FGFR3; the interaction requires FGFR3 'Tyr-724' and 'Tyr-760'. Isoform 2 interacts with RET; the interaction requires RET kinase activity and RET 'Tyr-981'. Isoform 2 interacts with RAC1. Isoform 2 interacts with PDGFRA and/or PDGFRB; the interaction requires receptor activation. Interacts with ISR1 and ISR2. Isoform 3 is probably part of a complex consisting of INSR, ISR1 and SH2B1. Probably part of a ternary complex consisting of SH2B1, JAK2 and ISR1 or ISR2. May interact with FCER1G (By similarity). Interacts (via SH2 domain) with NTRK1 (phosphorylated) (By similarity). Post-translational Modifications: Phosphorylated on tyrosine residues in response to receptor kinase stimulation. Phosphorylated by RET. Similarity: Belongs to the SH2B adapter family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	224926826
NCBI GeneID	25970
NCBI Accession #	NP_001139267.1
NCBI GenBank Nucleotide #	NM_001145795.1
UniProt Accession #	Q9NRF2; Q96FK3; Q96SX3; Q9NRF1; Q9NRF3; Q9P2P7; Q9Y3Y3; A8K2R7
Molecular Weight	Observed: 79 kDa Predicted: 80 kDa
NCBI Official Full Name	SH2B adapter protein 1 isoform 1
NCBI Official Synonym Full Names	SH2B adaptor protein 1
NCBI Official Symbol	SH2B1
NCBI Official Synonym Symbols	PSM; SH2B
NCBI Protein Information	SH2B adapter protein 1

UniProt Protein Name	SH2B adapter protein 1
UniProt Gene Name	SH2B1
UniProt Synonym Gene Names	KIAA1299; SH2B; PSM

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/sh2b1-antibody-immunohistochemistry-western-blot-elisa/327105>