

Rabbit anti-Human SH2B1 Polyclonal Antibody | anti-SH2B1 antibody

SH2B1 Antibody

CATALOG # AAA232357	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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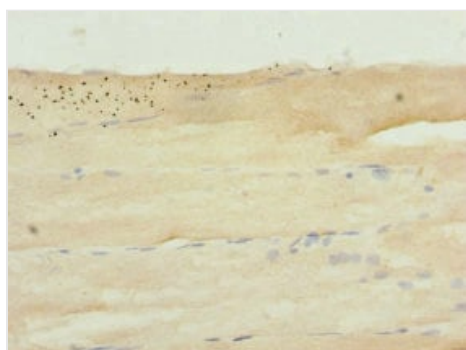
PRODUCT SYNONYMS

SH2B1; Polyclonal Antibody; SH2B1 Antibody; SH2B adapter protein 1; Pro-rich; PH and SH2 domain-containing signaling mediator; PSM; SH2 domain-containing protein 1B; KIAA1299; SH2B; anti-SH2B1 antibody

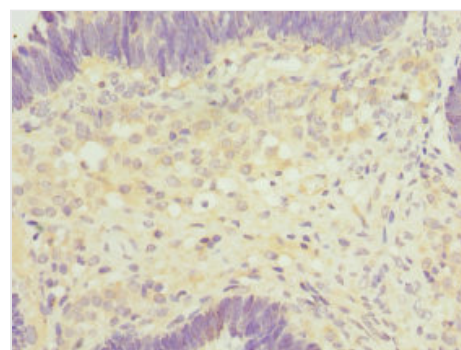
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid
Sequence Length	756
Applicable Applications for anti-SH2B1 antibody	IHC (Immunohistochemistry), ELISA
Species	Human
Immunogen	Recombinant human SH2B adapter protein 1 protein (360-520AA)
Conjugate	Non-conjugated
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-366009
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human skeletal muscle tissue using AAA232357 at dilution 1:100



IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human ovarian cancer tissue using AAA232357 at dilution 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-SH2B1 antibody	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).
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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	72,188 Da
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
UniProt Entry Name	SH2B1_HUMAN

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.