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anti-SH2B1 antibody (Internal Region)

3 Images



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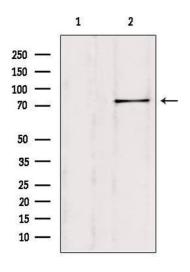
Overview	
Quantity:	100 μL
Target:	SH2B1
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SH2B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA
Product Details	
Immunogen:	A synthesized peptide derived from human SH2B1, corresponding to a region within the internal amino acids.
Isotype:	IgG
Specificity:	SH2B1 Antibody detects endogenous levels of total SH2B1.
Predicted Reactivity:	Horse,Sheep,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).
Target Details	
Target:	SH2B1

Alternative Name:	SH2B1 (SH2B1 Products)
Background:	Description: 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 SH2B
	and these phosphorylated residues may serve to recruit other proteins to the GHR-JAK2-SH2B
	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).
	Gene: SH2B1
Molecular Weight:	79kDa
Gene ID:	25970
UniProt:	Q9NRF2
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL

Handling

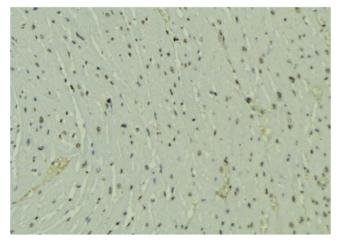
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



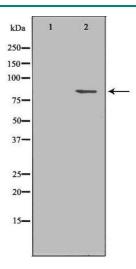
Western Blotting

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



Immunohistochemistry

Image 2. ABIN6277646 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 22jãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary



Western Blotting

Image 3. Western blot analysis of Mouse brain lysate, using SH2B1 Antibody. The lane on the left is treated with the antigen-specific peptide.