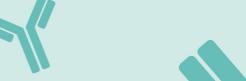
antibodies - online.com







anti-SH2B1 antibody



Overview

Quantity:	100 μg
Target:	SH2B1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SH2B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	SH2B adaptor protein 1
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	SH2B1	
Alternative Name:	SH2B1 (SH2B1 Products)	
Background:	Synonyms:KIAA1299, SH2B Background: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 linederived 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).

Gene ID: 25970

UniProt: Q9NRF2

Application Details

Application Notes: WB: 1:200-1:2000, IP: 1:200-1:2000, IHC: 1:20-1:200, IF: 1:20-1:200

Restrictions: For Research Use only

Handling

Format:	Liquid	
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,	
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:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)	

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Expiry Date:

12 months