

Immunotag™ JAB1 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT2423
Product Description	Immunotag™ JAB1 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	JAB1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human COPS5. AA range:161-210
Specificity	JAB1 Polyclonal Antibody detects endogenous levels of JAB1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	COPS5
Accession No.	Q92905 O35864
Alternate Names	COPS5; CSN5; JAB1; COP9 signalosome complex subunit 5; SGN5; Signalosome subunit 5; Jun activation domain-binding protein 1

Antibody Specification

Description	COP9 signalosome subunit 5(COPS5) Homo sapiens The protein encoded by this gene is one of the eight subunits of COP9 signalosome, a highly conserved protein complex that functions as an important regulator in multiple signaling pathways. The structure and function of COP9 signalosome is similar to that of the 19S regulatory particle of 26S proteasome. COP9 signalosome has been shown to interact with SCF-type E3 ubiquitin ligases and act as a positive regulator of E3 ubiquitin ligases. This protein is reported to be involved in the degradation of cyclin-dependent kinase inhibitor CDKN1B/p27Kip1. It is also known to be an coactivator that increases the specificity of JUN/AP1 transcription factors. [provided by RefSeq, Jul 2008],
Protein Expression	Brain,Cervix carcinoma,Eye,Liver,Muscle,
Subcellular Localization	nucleus,nucleoplasm,cytoplasm,eukaryotic translation initiation factor 3 complex,synaptic vesicle,COP9 signalosome,cell junction,perinuclear region of cytoplasm,
Protein Function	<p>cofactor:Divalent metal ions.,domain:The JAMM motif is essential for the protease activity of the CSN complex resulting in deneddylation of cullins. It constitutes the catalytic center of the complex.,function:Probable protease subunit of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of the SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, c-jun/JUN, IkappaBalpha/NFKBIA, ITPK1 and ICSBP, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively. In the complex, it probably acts as the catalytic center that mediates the cleavage of Nedd8 from cullins. It however has no metalloprotease activity by itself and requires the other subunits of the CSN complex. Interacts directly with a large number of proteins that are regulated by the CSN complex, confirming a key role in the complex.,miscellaneous:The CSN complex is associated with some 'Lys-63'-specific deubiquitination. Such activity is however not mediated by the core CSN complex but by the BRCC3/BRCC36 component of the BRISC complex.,similarity:Belongs to the peptidase M67A family. CSN5 subfamily.,similarity:Contains 1 MPN (JAB/Mov34) domain.,subunit:Component of the CSN complex, composed of COPS1/GPS1, COPS2, COPS3, COPS4, COPS5, COP6, COPS7 (COPS7A or COPS7B) and COPS8. In the complex, it probably interacts directly with COPS1, COPS2, COPS4, COPS6 and COPS7 (COPS7A or COPS7B). The CSN complex interacts with the BRISC complex. Also exists as monomeric form. Interacts with TP53, MIF, JUN, UCHL1, NCOA1, HIF1A, CDKN1B, BCL3, GFER, PGR, LHCGR, SMAD4, SMAD7, ID1, ID3, ITGB2 and TOP2A. Part of a complex consisting of RANBP9, Ran, DYRK1B and COPS5.,</p>
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.