



JAB1 Rabbit mAb

Catalog No	YP-rAb-17133
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	COPS5
Protein Name	COP9 signalosome complex subunit 5
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	COPS5 ; CSN5 ; JAB1 ; COP9 signalosome complex subunit 5 ; SGN5 ; Signalosome subunit 5 ; Jun activation domain-binding protein 1
Observed Band	38kD
Calculated Molecular Weight	38kD
Cell Pathway	Cytoplasm, cytosol . Nucleus . Cytoplasm, perinuclear region . Cytoplasmic vesicle, secretory vesicle, synaptic vesicle . Nuclear localization is diminished in the presence of IFIT3. .
Tissue Specificity	Brain,Cervix carcinoma,Eye,Liver,Muscle,
Function	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, IκappaBα/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, COPS6, 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.

Background

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],

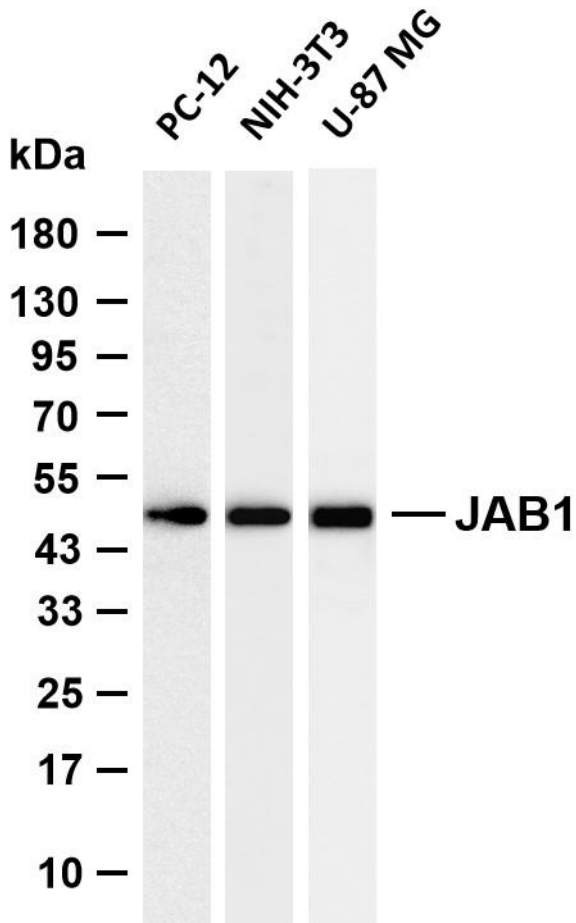
matters needing attention

Avoid repeated freezing and thawing!

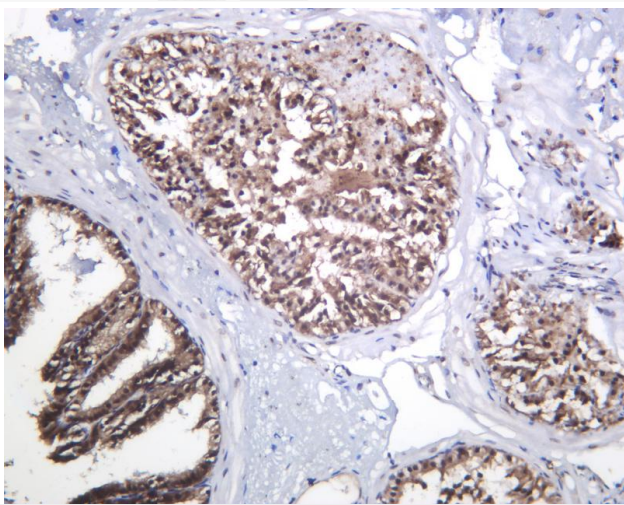
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.





Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-JAB1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: PC-12 Lane 2: NIH-3T3 Lane 3: U-87 MG Predicted band size: 38kDa Observed band size: 38kDa



Mouse prostate was stained with anti-JAB1 Rabbit antibody

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