

Rabbit COPS5 Polyclonal Antibody | anti-COPS5 antibody

COPS5 Antibody

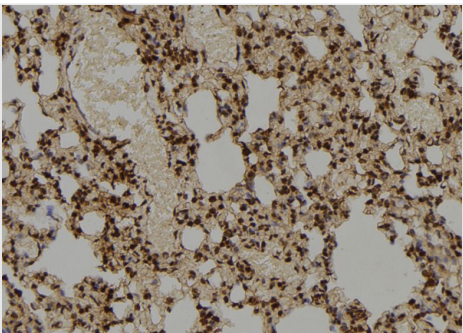
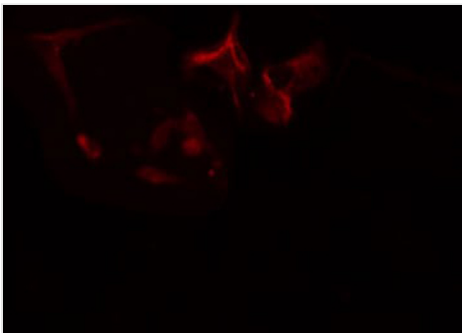
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326367	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

COPS5; Polyclonal Antibody; COPS5 Antibody; 38 kDa Mov34 homolog; COP9 (constitutive photomorphogenic) homolog subunit 5; COP9 constitutive photomorphogenic homolog subunit 5; COP9 signalosome complex subunit 5; COP9 signalosome subunit 5; Cop9 subunit 5; COPS 5; cops5; CSN 5; CSN5; CSN5_HUMAN; JAB 1; Jun activation domain binding protein 1; Jun activation domain binding protein; Jun activation domain-binding protein 1; MGC3149; MOV 34; MOV34; MOV34 family; 38-KD member; SGN 5; SGN5; Signalosome subunit 5; anti-COPS5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	COPS5 antibody detects endogenous levels of total COPS5
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	334
Applicable Applications for anti-COPS5 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human COPS5
Subcellular Location	Cytoplasm. Nucleus.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

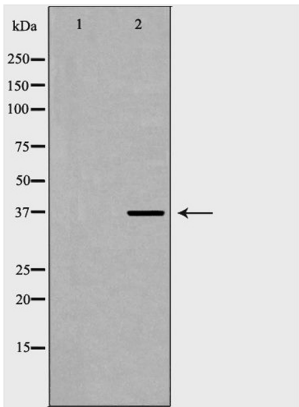


IF (Immunofluorescence)

AAA326367 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

IHC (Immunohiostchemistry)

AAA326367 at 1/100 staining Rat lung 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 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using COPS5 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-COPS5 antibody	Description: The COP9 Signalosome (CSN) is a ubiquitously expressed multiprotein complex that is involved in a vast array of cellular and developmental processes, which is thought to be attributed to its control over the ubiquitin-proteasome pathway. Typically, the CSN is composed of eight highly conserved subunits (CSN1-CSN8), each of which is homologous to one of the eight subunits that form the lid of the 26S proteasome particle, suggesting that these complexes have a common evolutionary ancestor (1). CSN was first identified in Arabidopsis thaliana mutants with a light-grown seedling phenotype when grown in the dark (2-4). The subsequent cloning of the constitutive morphogenesis 9 (cop9) mutant from Arabidopsis thaliana was soon followed by the biochemical purification of the COP9-containing multiprotein complex (4). It is now widely accepted that the CSN directly interacts with cullin-RING ligase (CRL) families of ubiquitin E3 complexes, and that CSN is required for their proper function (5). In addition, CSN may also regulate protein homeostasis through its association with protein kinases and deubiquitinating enzymes. Collectively, these activities position the CSN as a pivotal regulator of the DNA-damage response, cell-cycle control, and gene expression (1). COPS5/CSN5/Jab1 (c-Jun activation domain-binding protein-1) was originally identified as a transcriptional coactivator of c-Jun and subsequently discovered to be a fifth component and integral part of the CSN (6). As the catalytic center of the CSN, COPS5 is able to integrate multiple functions of the CSN complex such as cell-cycle control, transcription, and DNA-damage response by regulating the activity of CRLs through deneddylation of cullins (7). 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 IRF8, 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. Promotes the proteasomal degradation of BRSK2. Subunit Structure: Component of the CSN complex, composed of COPS1/GPS1, COPS2, COPS3, COPS4, COPS5, COPS6, COPS7 (COPS7A or COPS7B), COPS8 and COPS9 isoform 1 (PubMed:26456823). In the complex, it probably interacts directly with COPS1, COPS2, COPS4, COPS6 and COPS7 (COPS7A or COPS7B) and COPS9 isoform 1 (PubMed:26456823). Interacts with COPS9 isoform 2 (PubMed:23776465). 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. Interacts with IFIT3. Interacts with BRSK2. Interacts with ZDHHC16 (PubMed:17123647). Interacts with MINDY3 (PubMed:21499297). Interacts with FANK1; regulates the phosphorylation of JUN and the transcriptional activity of AP-1 (PubMed:20978819). Similarity: 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 (By similarity). Belongs to the peptidase M67A family. CSN5 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38027923
NCBI GeneID	10987
NCBI Accession #	NP_006828.2
NCBI GenBank Nucleotide #	NM_006837.2
UniProt Accession #	Q92905; O15386; Q6AW95; Q86WQ4; Q9BQ17
Molecular Weight	Observed: 37 kDa Predicted: 38 kDa
NCBI Official Full Name	COP9 signalosome complex subunit 5
NCBI Official Synonym Full Names	COP9 signalosome subunit 5
NCBI Official Symbol	COPS5
NCBI Official Synonym Symbols	CSN5; JAB1; SGN5; MOV-34
NCBI Protein Information	COP9 signalosome complex subunit 5

UniProt Protein Name	COP9 signalosome complex subunit 5
UniProt Gene Name	COPS5
UniProt Synonym Gene Names	CSN5; JAB1; SGN5; Signalosome subunit 5

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cops5-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326367>