

Rabbit COPS5 Polyclonal Antibody | anti-COPS5 antibody

COPS5 Antibody

CATALOG # AAA168942	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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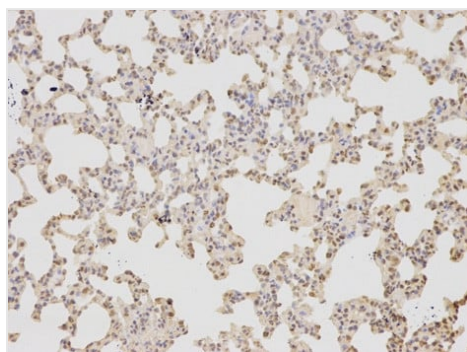
PRODUCT SYNONYMS

COPS5; Polyclonal Antibody; COPS5 Antibody; CSN5; JAB1; MGC3149; MOV-34; SGN5; anti-COPS5 antibody

PRODUCT SPECIFICATIONS

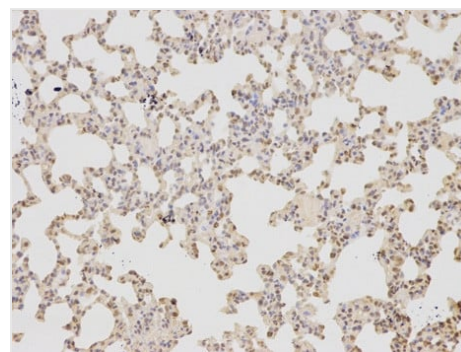
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (varies by lot)
Sequence Length	334
Applicable Applications for anti-COPS5 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human COPS5
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-6271 / sc-9074
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.

IMAGES



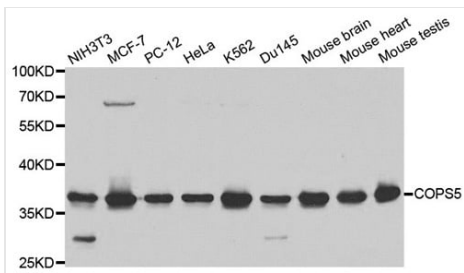
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat lung using COPS5 antibody at dilution of 1:100 (200x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat kidney using COPS5 antibody at dilution of 1:100 (200x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using COPS5 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-COPS5 antibody

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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	38027923
NCBI GeneID	10987
NCBI Accession #	NP_006828.2
NCBI GenBank Nucleotide #	NM_006837.2
Molecular Weight	37,579 Da
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; 38 kDa Mov34 homolog; COP9 constitutive photomorphogenic homolog subunit 5; jun activation domain-binding protein 1; signalosome subunit 5
UniProt Protein Name	COP9 signalosome complex subunit 5
UniProt Gene Name	COPS5
UniProt Synonym Gene Names	CSN5; JAB1; SGN5; Signalosome subunit 5
UniProt Entry Name	CSN5_HUMAN

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.

