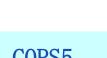
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Signalway

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Antibody



Technical: tech@swbio.com

Catalog Number: 24230-1, 24230-2 Amount: 50μg/50μl, 100μg/100μl Swiss-Prot No. : Q92905

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl,0.02% sodium azide and 50% glycerol. **Storage/Stability:** Store at -20°C/1 year

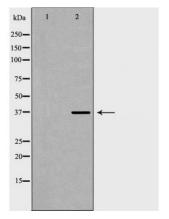
Immunogen: The antiserum was produced against synthesized peptide derived from Human COPS5 **Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Specificity/Sensitivity: COPS5 Antibody detects endogenous levels of total COPS5

Reactivity: Human, Mouse, Rat

Applications:

Predicted MW: 37kd WB:1:500-2000 IHC:1:50-200



Western blot analysis of extracts of variouscell lines, using COPS5 antibody.

Background:

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. CSN was first identified in Arabidopsis thaliana mutants with a light-grown seedling phenotype when grown in the dark. The

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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 . 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 . 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 . 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 . 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 .

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