

COPS5 Antibody

Catalog No: #34008

Package Size: #34008-1 50ul #34008-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

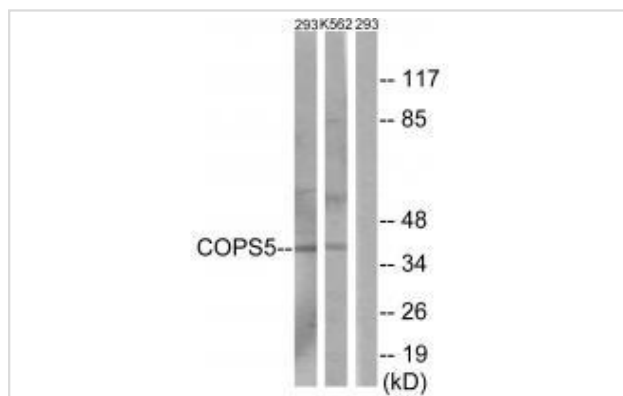
Description

Product Name	COPS5 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total COPS5 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human COPS5.
Target Name	COPS5
Other Names	EC 3.4.-.-; Signalosome subunit 5; SGN5; Jun activation domain-binding protein 1;
Accession No.	Swiss-Prot: Q92905NCBI Gene ID: 10987
Uniprot	Q92905
GeneID	10987;
SDS-PAGE MW	38kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from 293 cells and K562 cells, using COPS5 antibody #34008.

Background

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, I κ B α /NF κ B α , 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.

Claret F.-X., Nature 383:453-457(1996).

Asano K., J. Biol. Chem. 272:27042-27052(1997).

The MGC Project Team, Genome Res. 14:2121-2127(2004).

Note: This product is for in vitro research use only