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COPS8 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14987a

Product Information

Application	WB, E
Primary Accession	Q99627
Other Accession	NP_006701.1, NP_937832.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35198
Calculated MW	23226
Antigen Region	1-30

Additional Information

Gene ID	10920
Other Names	COP9 signalosome complex subunit 8, SGN8, Signalosome subunit 8, COP9 homolog, hCOP9, JAB1-containing signalosome subunit 8, COPS8, CSN8
Target/Specificity	This COPS8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human COPS8.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	COPS8 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	COPS8
Synonyms	CSN8
Function	Component 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 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/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.
Cellular Location	Cytoplasm. Nucleus

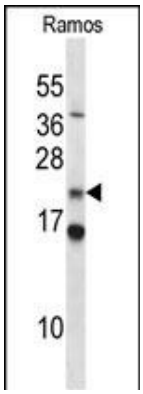
Background

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. Alternatively spliced transcript variants encoding distinct isoforms have been observed.

References

Enchev, R.I., et al. Structure 18(4):518-527(2010)
Miyauchi, Y., et al. J. Biol. Chem. 283(24):16622-16631(2008)
Schweitzer, K., et al. EMBO J. 26(6):1532-1541(2007)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Wang, Y., et al. FEBS Lett. 572 (1-3), 85-91 (2004) :

Images



COPS8 Antibody (N-term) (Cat. #AP14987a) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the COPS8 antibody detected the COPS8 protein (arrow).