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COPS7A Rabbit pAb

Catalog # AP98992

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9UBW8
Other Accession	Q9UBW8
Reactivity	Rat, Human
Predicted	Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30277
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human COPS7A
Epitope Specificity	201-275/275
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the CSN7/EIF3M family. CSN7 subfamily. Contains 1 PCI domain.
SUBUNIT	Component of the CSN complex, composed of COPS1/GPS1, COPS2, COPS3, COPS4, COPS5, COP6, COPS7 (COPS7A or COPS7B) and COPS8. In the complex, it probably interacts directly with COPS1, COPS2, COPS4, COPS5, COPS6 and COPS8. Interacts with PMF1. Interacts with the translation initiation factor EIF3S6. Interacts with CK2 and PKD. Interacts directly with ID3.
DISEASE	Phosphorylated by CK2 and PKD kinases. Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	COPS7A is a 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.

Additional Information

Gene ID	50813
Other Names	CSN7; CSN7A; SGN7a; D6Ertd35e; CSN7A_HUMAN; COPS7A; Signalosome subunit 7a; Dermal papilla-derived protein 10; JAB1-containing signalosome subunit 7a; DERP10; CSN7A_MOUSE; COP9 signalosome subunit 7A; COP9 (constitutive photomorphogenic, Arabidopsis, homolog) subunit 7A; COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	COPS7A
Synonyms	CSN7A, DERP10
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, JUN, I-kappa-B-alpha/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
Tissue Location	Widely expressed. Expressed at high level in brain, heart and skeletal muscle.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.