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COPS7A Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12810b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9UBW8
Other Accession	Q9CZ04, NP_057403.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32335
Calculated MW	30277
Antigen Region	237-266

Additional Information

Gene ID	50813
Other Names	COP9 signalosome complex subunit 7a, SGN7a, Signalosome subunit 7a, Dermal papilla-derived protein 10, JAB1-containing signalosome subunit 7a, COPS7A, CSN7A, DERP10
Target/Specificity	This COPS7A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 237-266 amino acids from the C-terminal region of human COPS7A.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	COPS7A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

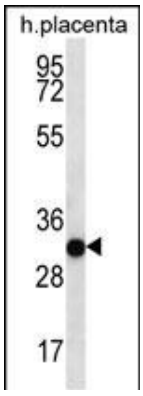
Background

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.

References

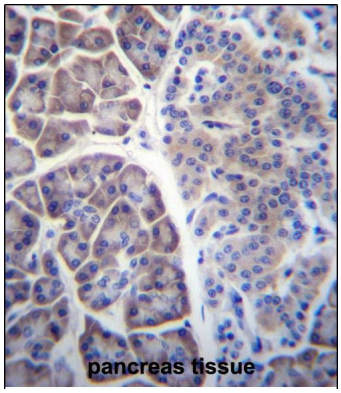
Matsuoka, S., et al. Science 316(5828):1160-1166(2007)
Stelzl, U., et al. Cell 122(6):957-968(2005)
Obuse, C., et al. Nat. Cell Biol. 6(11):1135-1141(2004)
Wolf, D.A., et al. Nat. Cell Biol. 5(12):1029-1033(2003)
Groisman, R., et al. Cell 113(3):357-367(2003)

Images



COPS7A Antibody (C-term) (Cat. #AP12810b) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the COPS7A antibody detected the COPS7A protein (arrow).

COPS7A Antibody (C-term) (Cat. #AP12810b)immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of COPS7A Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



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