

For Research Use Only

COPS4 Polyclonal antibody

Catalog Number: 10464-1-AP **3 Publications**



Basic Information

Catalog Number: 10464-1-AP	GenBank Accession Number: BC004302	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 260 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51138	Recommended Dilutions: WB: 1:500-1:1000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:250-1:1000
Source: Rabbit	UNIPROT ID: Q9BT78	
Isotype: IgG	Full Name: COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis)	
Immunogen Catalog Number: AG0735	Calculated MW: 46 kDa	
	Observed MW: 40 kDa, 46 kDa	

Applications

Tested Applications: WB, IHC, IP, ELISA	Positive Controls: WB : mouse brain tissue, PC-3 cells IP : PC-3 cells, IHC : human placenta tissue,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin 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. CSN4 gene encodes a component of CSN complex, COP9 signalosome complex subunit 4 (COPS4). The ubiquitin-proteasome system plays a major role in the rhythmic accumulation and turnover of molecular clock components. A recent study in Drosophila indicates that CSN lie in a common pathway leading to light-dependent degradation of clock protein Timeless (TIM).

Notable Publications

Author	Pubmed ID	Journal	Application
Mohamed Hamed	33589493	J Cell Sci	
En Liang	33911869	Neuropsychiatr Dis Treat	WB
Haiping Ouyang	39763868	bioRxiv	WB

Storage

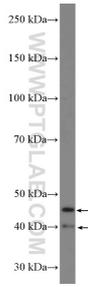
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

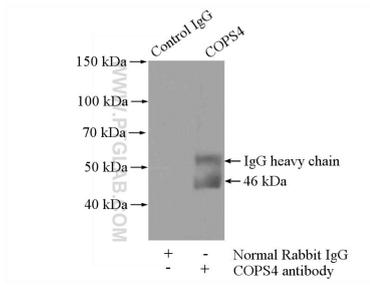
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

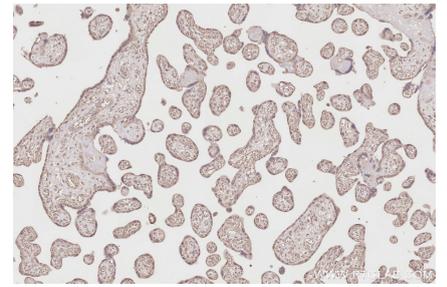
Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 10464-1-AP (COPS4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-COPS4 (IP:10464-1-AP, 4ug; Detection:10464-1-AP 1:300) with PC-3 cells lysate 1800ug.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 10464-1-AP (COPS4 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).