

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

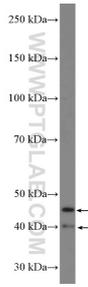
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

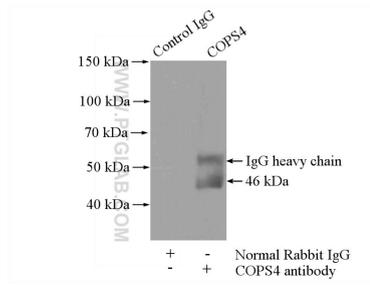
For technical support and original validation data for this product please contact:
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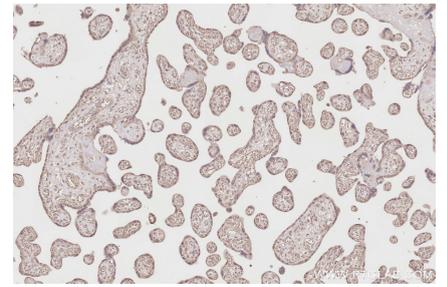
Selected Validation Data



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).