

For Research Use Only

COPS4 Polyclonal antibody

Catalog Number: 10464-1-AP

3 Publications



Basic Information

Catalog Number:

10464-1-AP

Concentration:

260 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0735

GenBank Accession Number:

BC004302

GeneID (NCBI):

51138

UNIPROT ID:

Q9BT78

Full Name:

COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis)

Calculated MW:

46 kDa

Observed MW:

40 kDa, 46 kDa

Purification Method:

Antigen affinity purification

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

Applications

Tested Applications:

WB, IHC, IP, ELISA

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

Positive Controls:

WB : mouse brain tissue, PC-3 cells

IP : PC-3 cells,

IHC : human placenta tissue,

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

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

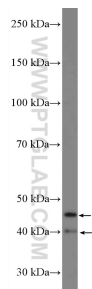
T: 4006900926

E: Proteintech-CN@ptglab.com

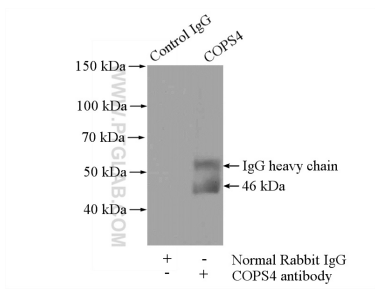
W: ptgcn.com

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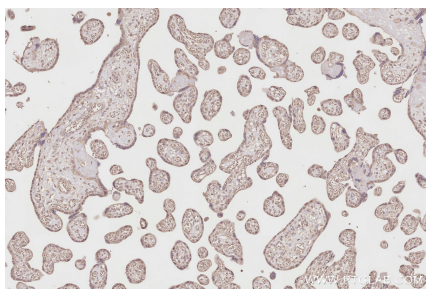
Selected Validation Data



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).