

For Research Use Only

# COPS4 Polyclonal antibody

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



## Basic Information

**Catalog Number:**

10464-1-AP

**Size:**

260 µg/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:**

40; 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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

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 pancreas 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
En Liang	33911869	Neuropsychiatr Dis Treat	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

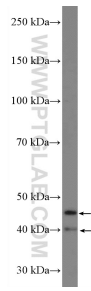
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

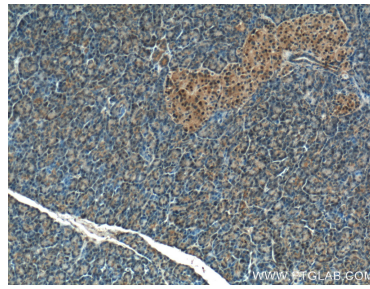
W: [ptgcn.com](http://ptgcn.com)

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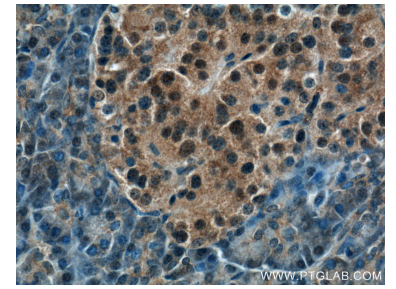
## Selected Validation Data



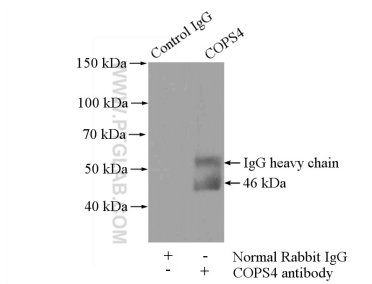
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10464-1-AP (COPS4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 10464-1-AP (COPS4 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 10464-1-AP (COPS4 antibody) at dilution of 1:200 (under 40x lens).



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