

## CSN1 (Phospho Ser454) Rabbit pAb

CatalogNo: YP1090

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IHC, IF, ELISA

#### MW

- 53kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**IHC 1:100-1:300**

**ELISA 1:5000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human COPS1 around the phosphorylation site of Ser454. AA range:420-469

**Specificity** Phospho-CSN1 (S454) Polyclonal Antibody detects endogenous levels of CSN1 protein only when phosphorylated at S454. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):EGsQG

## Target Information

**Gene name** GPS1  
**Protein Name** COP9 signalosome complex subunit 1

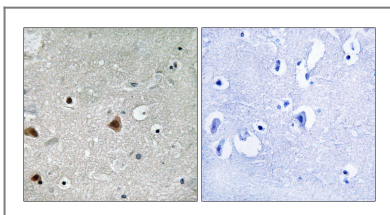
Organism	Gene ID	UniProt ID
Human	<a href="#">2873</a> ;	<a href="#">Q13098</a> ;
Mouse		<a href="#">Q99LD4</a> ;
Rat	<a href="#">117039</a> ;	<a href="#">P97834</a> ;

**Cellular Localization** Cytoplasm . Nucleus .

**Tissue specificity** Widely expressed.

**Function** Domain:The N-terminal part (1-216), which is not required for deneddylating activity and CSN complex formation, is nevertheless essential for other aspects of CSN complex function, such as repression of c-fos/FOS expression.,Domain:The PCI domain is necessary and sufficient for the interactions with other CSN subunits of the complex. Mediates the interaction with CAPN8.,Function:Essential 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, c-jun/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. Suppresses G-protein-and mitogen-activated protein kinase-mediated signal transduction.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the CSN1 family.,similarity:Contains 1 PCI domain.,subunit:Component of the CSN complex, composed of COPS1/GPS1, COPS2, COPS3, COPS4, COPS5, COP6, COPS7 (COPS7A or COPS7B) and COPS8. In the complex, it probably interacts directly with COPS2, COPS3, COPS4 and CSN5. Interacts directly with inositol kinase ITPK1. Interacts with CAPN8.,tissue specificity:Widely expressed.,

## Validation Data



Immunohistochemistry analysis of paraffin-embedded human brain, using COPS1 (Phospho-Ser454) Antibody. The picture on the right is blocked with the phospho peptide.

## Contact information

Orders: order.cn@immunoway.com  
Support: support.cn@immunoway.com  
Telephone: 400-8787-807(China)  
Website: http://www.immunoway.com.cn  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code  
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product information:  
**CSN1 (Phospho  
Ser454) Rabbit pAb**

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