For Research Use Only

CSN2 Polyclonal antibody

Catalog Number:10969-2-AP Featured Product 13 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
10969-2-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop and 493 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1415

GenBank Accession Number:
BC012629

GeneID (NCBI):
9318

UNIPROT ID:
P61201

Full Name:
COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)

Calculated MW:
52 kDa

Observed MW:
52 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: 1:50-1:500
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, CoIP

Species Specificity:
human, mouse

Cited Species:
human, mouse, pig

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 : HeLa cells, HEK-293T cells, HEK-293 cells, mouse brain tissue, NIH/3T3 cells, mouse kidney tissue

IP : NIH/3T3 cells,

IHC : human ovary tumor tissue,

IF/ICC : HeLa cells,

Background Information

COPS2 is an 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, IkappaBalpha/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. (refer to UniProt) Catalog#10969-2-AP is a rabbit polyclonal antibody raised against the full-length of human COPS2. The MW of this protein is 52 kDa, and this antibody specially recognises the 52 kDa protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Feng Rao	25349427	Proc Natl Acad Sci U S A	WB
Paul C Scherer	26976604	Proc Natl Acad Sci U S A	WB
Hong Lin	32047038	Proc Natl Acad Sci U S A	WB

Storage

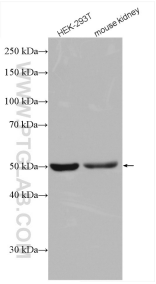
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

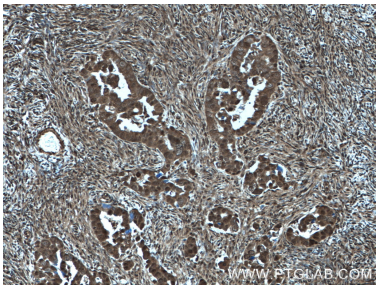
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

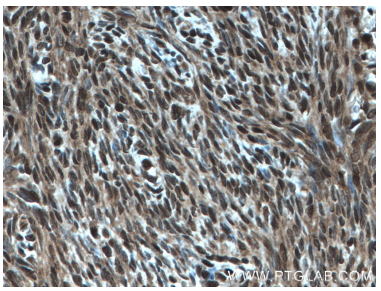
Selected Validation Data



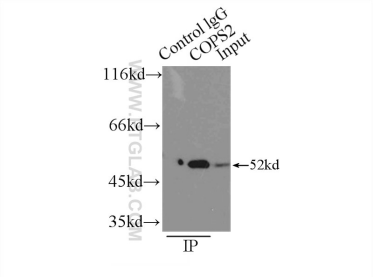
Various lysates were subjected to SDS PAGE followed by western blot with 10969-2-AP (CSN2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



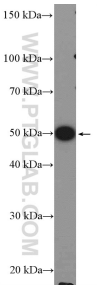
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10969-2-AP (CSN2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



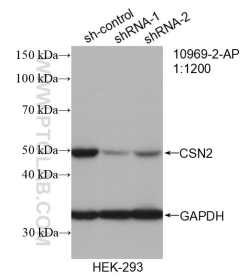
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 10969-2-AP (CSN2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



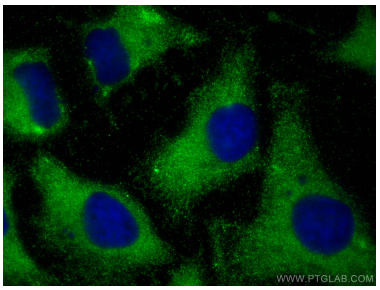
IP result of anti-CSN2 (IP:10969-2-AP, 3ug; Detection:10969-2-AP 1:500) with NIH/3T3 cells lysate 2500ug.



HeLa cells were subjected to SDS PAGE followed by western blot with 10969-2-AP (CSN2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



WB result of CSN2 antibody (10969-2-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-CSN2 transfected HEK-293 cells.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CSN2 antibody (10969-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).