

For Research Use Only

CSN2 Monoclonal antibody

Catalog Number: 66435-1-Ig



Basic Information

Catalog Number: 66435-1-Ig	GenBank Accession Number: BC012629	Purification Method: Protein G purification
Size: 150ul , Concentration: 1100 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 9318	CloneNo.: 2H10E6
Source: Mouse	Full Name: COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)	Recommended Dilutions: WB 1:2000-1:16000 IHC 1:50-1:500 IF 1:200-1:800
Isotype: IgG1	Calculated MW: 52 kDa	
Immunogen Catalog Number: AG1415	Observed MW: 52 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

human, mouse, rat

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 : NIH/3T3 cells, C6 cells, RAW 264.7 cells, ROS1728 cells

IHC : human ovary tumor tissue,

IF : human ovary tumor tissue,

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, IκappaBα/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.

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

*** 20ul sizes contain 0.1% BSA

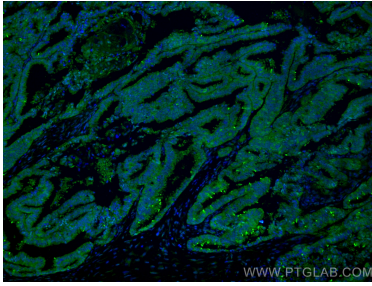
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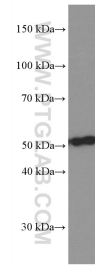
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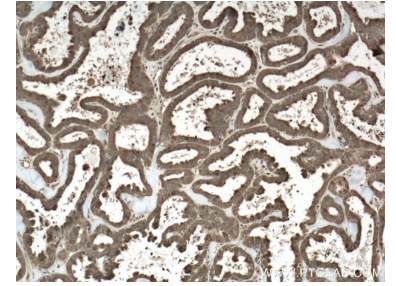
Selected Validation Data



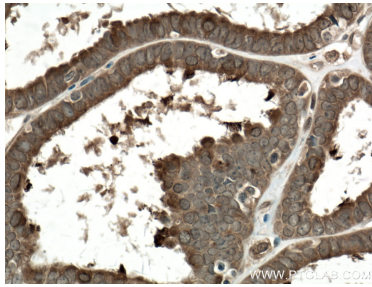
Immunofluorescent analysis of (4% PFA) fixed human ovary tumor tissue using CSN2 antibody (66435-1-Ig, Clone: 2H10E6) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 66435-1-Ig (CSN2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 66435-1-Ig (CSN2 antibody) at dilution of 1:500 (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 66435-1-Ig (COPS2 Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).