

For Research Use Only

COP1 Polyclonal antibody

Catalog Number: 28395-1-AP



Basic Information

Catalog Number: 28395-1-AP	GenBank Accession Number: BC039723	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 270 µg/ml by Nanodrop;	GeneID (NCBI): 64326	Recommended Dilutions: WB: 1:1000-1:4000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8NHY2	
Isotype: IgG	Full Name: ring finger and WD repeat domain 2	
Immunogen Catalog Number: AG28163	Calculated MW: 731 aa, 80 kDa	
	Observed MW: 80-90 kDa	

Applications

Tested Applications: WB, IHC, IP, ELISA	Positive Controls: WB : HCT 116 cells, IP : HCT 116 cells, HeLa cells IHC : mouse heart tissue,
Species Specificity: 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	

Background Information

COP1 (constitutive photomorphogenic 1) is also named Ring finger and WD domain 2 (RFWD2), RING finger protein 200 (RNF20). COP1 is an E3 ubiquitin ligase that modifies specific target proteins, priming their degradation via the ubiquitin proteasome system (PMID: 27335464). COP1 (also known as RFWD2) is an important suppressor of pathogenic c/EBPβ-dependent gene expression programs in microglia (PMID: 32795415). COP1 is as a tumour suppressor that negatively regulates ETV1, ETV4 and ETV5. The ubiquitin ligase COP1 is as a tumour suppressor whose downregulation promotes prostatic epithelial cell proliferation and tumorigenesis (PMID: 21572435). COP1 has been identified as a novel and critical negative regulator of the tumor suppressor protein p53, and it influences p53-dependent transcription, apoptosis, cell cycle arrest and DNA repair (PMID: 16931761, PMID: 15103385). Recently, COP1 has been found to be overexpressed in human hepatocellular carcinoma, breast cancer and ovarian adenocarcinomas (PMID: 15492238, PMID: 20959491).

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

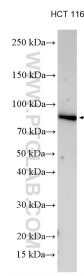
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

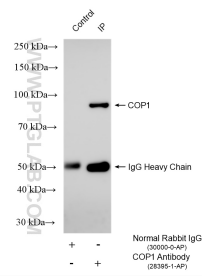
E: proteintech@ptglab.com
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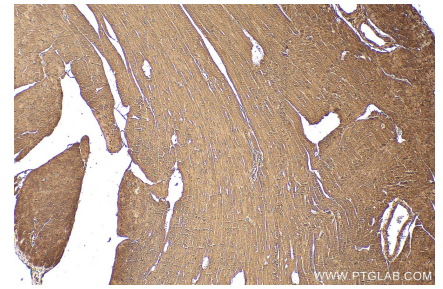
Selected Validation Data



HCT 116 cells lysates were subjected to SDS PAGE followed by western blot with 28395-1-AP (COP1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-COP1 (IP:28395-1-AP, 4ug; Detection:28395-1-AP 1:1000) with HCT 116 cells lysate 1920 ug.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 28395-1-AP (COP1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).