

For Research Use Only

# COP1 Polyclonal antibody

Catalog Number: 13542-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 13542-1-AP	<b>GenBank Accession Number:</b> BC039723	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150 µg/ml	<b>GeneID (NCBI):</b> 64326	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8NHY2	
<b>Isotype:</b> IgG	<b>Full Name:</b> ring finger and WD repeat domain 2	
<b>Immunogen Catalog Number:</b> AG4484	<b>Calculated MW:</b> 731 aa, 80 kDa	
	<b>Observed MW:</b> 90 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : human heart tissue, mouse heart tissue IHC : human osteosarcoma tissue,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

COP1 is also named as RFW2, RNF200 and belongs to the COP1 family. It is a ubiquitin ligase that targets key regulators for degradation, and DET1 complexes with COP10 and DDB1, which is proposed to aid in COP1-mediated degradation (PMID:22705257). The endogenous COP1 is localized predominantly in the nucleus, but small amount may also be present in the cytosol. Within the nucleus, COP1 is present in both the nucleoplasm (NP) and the nuclear envelope (NE) fractions, although COP1 is more enriched in the nucleoplasm (PMID:12466024). Two of the COP1 isoforms identified by RNA-seq analysis predicted the size of two proteins detected by the antibody for COP1, a 75 kDa band, corresponding to the longer isoform, and a 50 kDa band corresponding to the shorter isoform. (PMID:24714719). It has been shown that COP1 forms dimerization through its coiled-coil region.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yoon-Jin Kim	30393117	Cancer Lett	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:

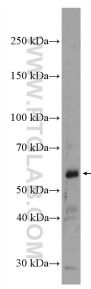
T: 4006900926

E: Proteintech-CN@ptglab.com

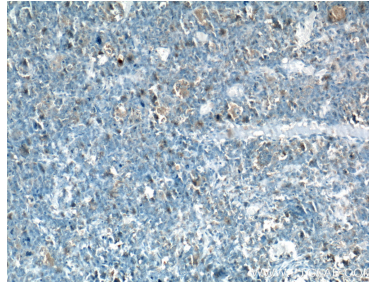
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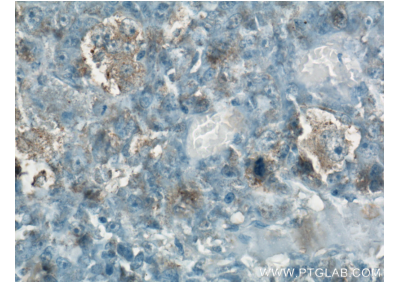
## Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 13542-1-AP (COP1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human osteosarcoma tissue slide using 13542-1-AP (COP1 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 osteosarcoma tissue slide using 13542-1-AP (COP1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).