

Anti-COP1 Antibody
Rabbit polyclonal antibody to COP1
Catalog # AP60951**Specification**

Anti-COP1 Antibody - Product Information

Application	WB
Primary Accession	Q8NHY2
Other Accession	Q9R1A8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80474

Anti-COP1 Antibody - Additional Information**Gene ID** 64326**Other Names**

COP1; RNF200; E3 ubiquitin-protein ligase RFWD2; Constitutive photomorphogenesis protein 1 homolog; hCOP1; RING finger and WD repeat domain protein 2; RING finger protein 200

Target/Specificity

Recognizes endogenous levels of COP1 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-COP1 Antibody - Protein Information**Name** COP1 ([HGNC:17440](#))**Function**

E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Involved in JUN ubiquitination and degradation. Directly involved in p53 (TP53) ubiquitination and degradation, thereby abolishing p53-dependent transcription and apoptosis. Ubiquitinates p53 independently of MDM2 or RCHY1. Probably mediates E3 ubiquitin ligase activity by functioning as the essential RING domain subunit of larger E3 complexes. In contrast, it does not constitute the catalytic RING subunit in the DCX DET1-COP1 complex that negatively regulates JUN, the ubiquitin ligase activity

being mediated by RBX1. Involved in 14-3-3 protein sigma/SFN ubiquitination and proteasomal degradation, leading to AKT activation and promotion of cell survival. Ubiquitinates MTA1 leading to its proteasomal degradation. Upon binding to TRIB1, ubiquitinates CEBPA, which lacks a canonical COP1-binding motif (Probable).

Cellular Location

Nucleus speckle. Cytoplasm. Note=In the nucleus, it forms nuclear speckles

Tissue Location

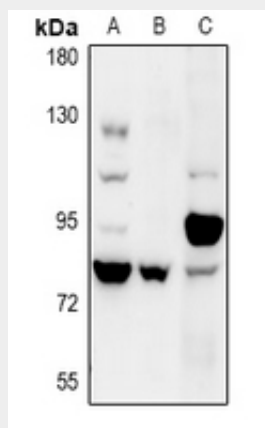
Ubiquitously expressed at low level. Expressed at higher level in testis, placenta, skeletal muscle and heart

Anti-COP1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-COP1 Antibody - Images



Western blot analysis of COP1 expression in mouse testis (A), rat testis (B), HeLa (C) whole cell lysates.

Anti-COP1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human COP1. The exact sequence is proprietary.