bs-13925R **[Primary Antibody]**

COP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 64326 **SWISS:** Q8NHY2

Target: COP1

Immunogen: KLH conjugated synthetic peptide derived from human COP1: 651-731/731.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: COP1 is an E3 ubiquitin ligase protein that mediates ubiquitination and degradation of target proteins such as c-Jun and p53. It is a component of the DCX DET1-COP1 ubiquitin ligase complex which consists of RBX1, DET1, DDB1, CUL4A and COP1. Localizing to the cytoplasm and to the nucleus, COP1 is primarily expressed in testis, placenta, heart and skeletal muscle. COP1 is a potent inhibitor of p53-dependent transcription and apoptosis but, when phosphorylated by Atm (ataxia telangiectasia mutated) in response to DNA damage, the COP1-p53 complex is disrupted and p53 is allowed to exert its pro-apoptotic properties. In ovarian and breast cancers, COP1 is overexpressed, suggesting a role for COP1 in tumorigenesis.

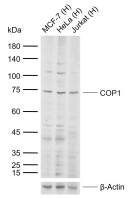
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW.: 80 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Lane 1: Human MCF-7 cell lysates Lane 2: Human HeLa cell lysates Lane 3: Human Jurkat cell lysates Primary: Anti-COP1 (bs-13925R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 80 kDa Observed band size: 75 kDa

SELECTED CITATIONS

- **[IF=4.575]** Ren, Teng-Teng. et al. Gisenoside Rg1 attenuates cadmium-induced neurotoxicity in vitro and in vivo by attenuating oxidative stress and inflammation. Inflamm Res. 2021 Dec;70(10):1151-1164 WB ;Mouse. 34661679
- **[IF=3.412]** Fu R et al. Avenanthramide A induces cellular senescence via miR-129-3p/Pirh2/p53 signaling pathway to suppress colon cancer growth. Agric Food Chem. 2019 May 1;67(17):4808-4816. WB ;Human. 30888162
- **[IF=3.105]** Huan-Tong Wu. et al. Edaravone attenuates H2O2 or glutamate-induced toxicity in hippocampal neurons and improves AlCl3/D-galactose induced cognitive impairment in mice. Neurotoxicology. 2021 Jul;85:68 WB ;Rat. 34004234