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# KD-Validated Anti-COPS3 Rabbit Monoclonal Antibody

**Rabbit monoclonal antibody**
**Catalog # AGI1353**

## Specification

### KD-Validated Anti-COPS3 Rabbit Monoclonal Antibody - Product Information

| | |
|---|---|
| Application | **WB, FC, ICC** |
| Primary Accession | Q9UNS2 |
| Reactivity | **Rat, Human, Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **Predicted, 48 kDa, observed, 40-55 kDa KDa** |
| Gene Name | **COPS3** |
| Aliases | **COPS3; COP9 Signalosome Subunit 3; SGN3; CSN3; JAB1-Containing Signalosome Subunit 3; COP9 Signalosome Complex Subunit 3; Signalosome Subunit 3; COP9 (Constitutive Photomorphogenic, Arabidopsis, Homolog) Subunit 3; COP9 Constitutive Photomorphogenic Homolog Subunit 3 (Arabidopsis); COP9 Constitutive Photomorphogenic Homolog Subunit 3; COP9 Complex Subunit 3** |
| Immunogen | **A synthesized peptide derived from human COPS3** |

### KD-Validated Anti-COPS3 Rabbit Monoclonal Antibody - Additional Information

| | |
|---|---|
| Gene ID | **8533** |

**Other Names**
COP9 signalosome complex subunit 3, SGN3, Signalosome subunit 3, JAB1-containing signalosome subunit 3, COPS3, CSN3

### KD-Validated Anti-COPS3 Rabbit Monoclonal Antibody - Protein Information

**Name** COPS3

**Synonyms** CSN3

**Function**
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, IkappaBalpha/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.

**Cellular Location**
Cytoplasm. Nucleus

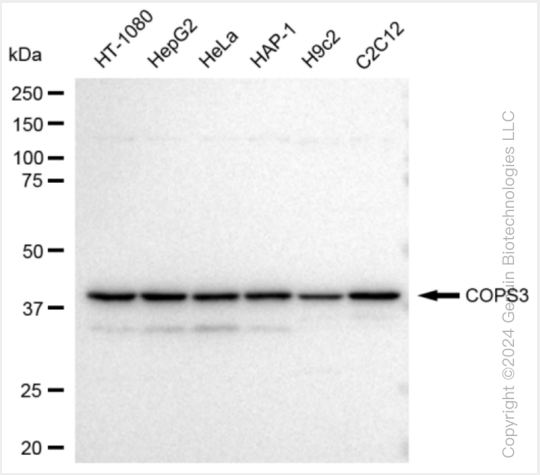
**Tissue Location**
Widely expressed. Expressed at high level in heart and skeletal muscle.

## KD-Validated Anti-COPS3 Rabbit Monoclonal Antibody - Protocols

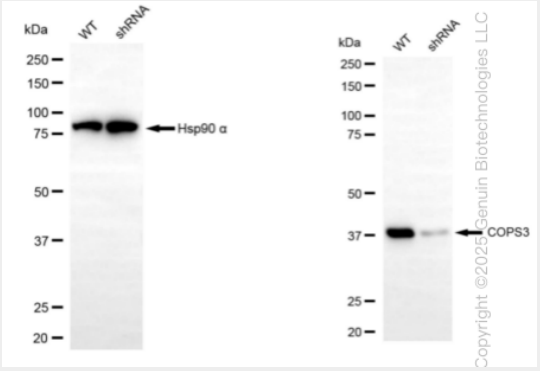
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## KD-Validated Anti-COPS3 Rabbit Monoclonal Antibody - Images




Western blotting analysis using anti-COPS3 antibody (Cat#AGI1353). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-COPS3 antibody (Cat#AGI1353, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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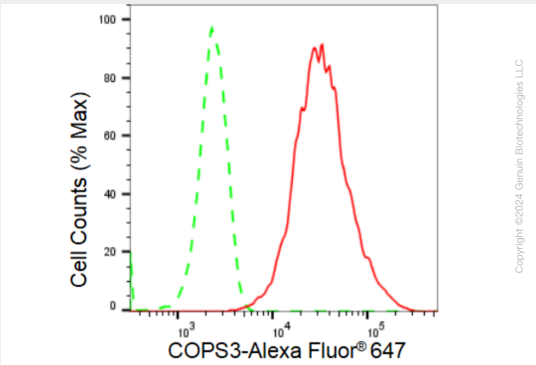
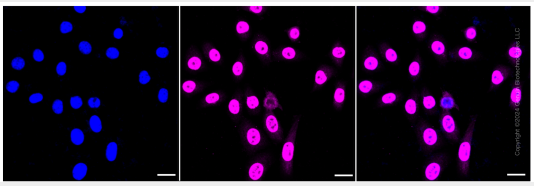
Western blotting analysis using anti-COPS3 antibody (Cat#AGI1353). COPS3 expression in wild type (WT) and COPS3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-COPS3 antibody (Cat#AGI1353, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.




Flow cytometric analysis of COPS3 expression in HepG2 cells using COPS3 antibody (Cat#AGI1353, 1:2,000). Green, isotype control; red, COPS3.



Immunocytochemical staining of HepG2 cells with COPS3 antibody (Cat#AGI1353, 1:1,000). Nuclei were stained blue with DAPI; COPS3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.