

## Anti-COPS3 Antibody (70525)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	70525
Purification:	Affinity-chromatography

## Applications

## 1. Western Blot

-Positive WB detected in: U251 whole cell lysate, HEK293 whole cell lysate, MCF-7 whole cell lysate, A549 whole cell lysate, HL-60 whole cell lysate, K562 whole cell lysate, Jurkat whole cell lysate

-All lanes: COPS3 antibody at 1:2000

-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution

-Predicted band size: 48, 46 kDa

-Observed band size: 40-55 kDa

2. IHC image of TMAH-00293 diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.

## Verified Activity:

3. IHC image of TMAH-00293 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.

4. Immunofluorescence staining of A549 cell with TMAH-00293 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 535-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

5. Overlay Peak curve showing MCF7 cells stained with TMAH-00293 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1 $\mu$ g/1\*10<sup>6</sup> cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG (H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1 $\mu$ g/1\*10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

## A DRUG SCREENING EXPERT

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Application: ELISA, WB, IHC, IF, FCM

Recommended WB:1:500-1:2000; IHC:1:50-1:200; IF:1:50-1:200; FCM:1:50-1:200.

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: A synthetic peptide: Human COPS3

Antigen Species: Human

Gene ID: 8533

Uniprot ID: Q9UNS2

Synonyms: COP9 signalosome complex subunit 3; Signalosome subunit 3; CSN3; COPS 3; SGN3; JAB1-containing signalosome subunit 3

Biology Area: Neuroscience, Cell biology

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### Research Background

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, IκappaBα/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.

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