

## Rabbit COPS2 Polyclonal Antibody | anti-COPS2 antibody

COPS2 Antibody

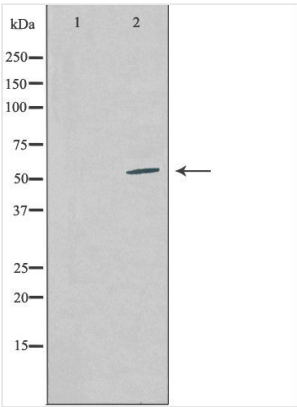
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                 |
|-----------|--------|-------------------|--------------------------------------------------------------|
| AAA323924 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

### PRODUCT SYNONYMS

COPS2; Polyclonal Antibody; COPS2 Antibody; ALIEN; Alien Drosophila homolog of; Alien homolog; COP 9; COP9; COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis); COP9 constitutive photomorphogenic homolog subunit 2; COP9 signalosome complex subunit 2; COPS 2; Cops2; CSN2; CSN2\_HUMAN; JAB1 containing signalosome subunit 2; JAB1-containing signalosome subunit 2; SGN 2; SGN2; Signalosome subunit 2; Thyroid Hormone Receptor Interactor15; Thyroid Hormone Receptor Interactor 15; Thyroid receptor-interacting protein 15; TR-interacting protein 15; TRIP 15; TRIP-15; TRIP15; anti-COPS2 antibody

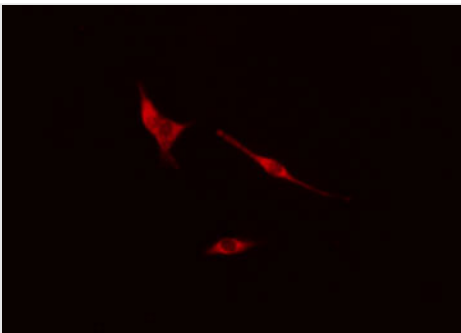
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                    |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                             |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                  |
| Clonality                                       | Polyclonal                                                                                                                         |
| Isotype                                         | IgG                                                                                                                                |
| Specificity                                     | COPS2 antibody detects endogenous levels of total COPS2                                                                            |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                      |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                      |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                             |
| Sequence Length                                 | 450                                                                                                                                |
| Applicable Applications for anti-COPS2 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                       |
| Immunogen                                       | A synthesized peptide                                                                                                              |
| Subcellular Location                            | Cytoplasm. Nucleus.                                                                                                                |
| Predicted Cross Reactivity                      | <b>Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                         |
| Similarity                                      | Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%) |
| Conjugation                                     | Unconjugated                                                                                                                       |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                  |



WB (Western Blot)

Western blot analysis of extracts from COS-7 cells using COPS2 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA323924 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-COPS2 antibody

Function: Essential 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. Involved in early stage of neuronal differentiation via its interaction with NIF3L1.

Subunit Structure: Component of the CSN complex, composed of COPS1/GPS1, COPS2, COPS3, COPS4, COPS5, COPS6, COPS7 (COPS7A or COPS7B), COPS8 and COPS9 isoform 1 (PubMed:11337588, PubMed:18850735, PubMed:26456823). In the complex, it probably interacts directly with COPS1, COPS4, COPS5, COPS6 and COPS7 (COPS7A or COPS7B) (PubMed:11337588, PubMed:18850735). Specifically interacts with the ligand binding domain of the thyroid receptor (TR). Does not require the presence of thyroid hormone for its interaction (By similarity). Interacts with CUL1 and CUL2 (PubMed:11337588). Interacts with IRF8/ICSBP1 and with nuclear receptors NR2F1 and NR0B1 (PubMed:10207062, PubMed:10713076, PubMed:10991940). Interacts with NIF3L1 (By similarity).

Post-translational Modifications: Phosphorylated by CK2 and PKD kinases.

Similarity: Belongs to the CSN2 family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 219842262                                                      |
| NCBI GeneID                      | 9318                                                           |
| NCBI Accession #                 | NP_001137359.1                                                 |
| NCBI GenBank Nucleotide #        | NM_001143887.1                                                 |
| UniProt Accession #              | P61201; O88950; Q15647; Q6FGP4; Q9BY54; Q9R249; Q9UNI2; Q9UNQ5 |
| Molecular Weight                 | Observed: 55 kD<br>Predicted: 52 kDa                           |
| NCBI Official Full Name          | COP9 signalosome complex subunit 2 isoform 2                   |
| NCBI Official Synonym Full Names | COP9 signalosome subunit 2                                     |
| NCBI Official Symbol             | COPS2                                                          |
| NCBI Official Synonym Symbols    | CSN2; SGN2; ALIEN; TRIP15                                      |
| NCBI Protein Information         | COP9 signalosome complex subunit 2                             |

|                            |                                                                               |
|----------------------------|-------------------------------------------------------------------------------|
| UniProt Protein Name       | COP9 signalosome complex subunit 2                                            |
| UniProt Gene Name          | COPS2                                                                         |
| UniProt Synonym Gene Names | CSN2; TRIP15; SGN2; Signalosome subunit 2; TR-interacting protein 15; TRIP-15 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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