

# CoraLite® Plus 488-conjugated COPS2 Monoclonal antibody

Catalog Number: **CL488-66435**

## Basic Information

<b>Catalog Number:</b> CL488-66435	<b>GenBank Accession Number:</b> BC012629	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 9318	<b>CloneNo.:</b> 2H10E6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P61201	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> COP9 constitutive photomorphogenic homolog subunit 2 (Arabidopsis)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG1415	<b>Calculated MW:</b> 52 kDa	
	<b>Observed MW:</b> 52 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF-P: human ovary cancer cells,
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

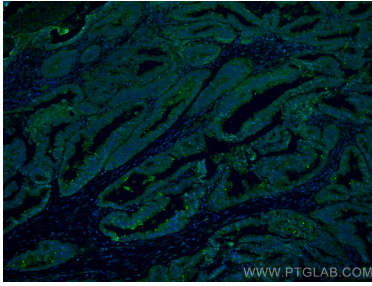
COPS2 is an essential component of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of SCF-type E3 ligase complexes, 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, IκappaBα/NFκBIA, 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.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human ovary cancer cells using CoraLite® Plus 488 COPS2 antibody (CL488-66435, Clone: 2H10E6 ) at dilution of 1:200.