abcam

Product datasheet

Anti-COPS3/CSN3 antibody [EPR3127] ab79698

Recombinant RabMAb

7 References 4 Images

Overview

Product name	Anti-COPS3/CSN3 antibody [EPR3127]
Description	Rabbit monoclonal [EPR3127] to COPS3/CSN3
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human COPS3/CSN3 aa 400-500 (C terminal). The exact sequence is proprietary.
Positive control	HT29 cell lysate HeLa cells SKBR-3 cell lysate 293T cell lysate
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR3127
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab79698 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/20 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000 - 1/20000. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for IHC-P.

Target

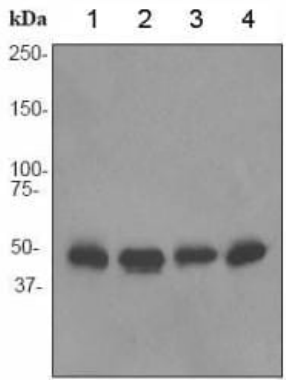
Function Component of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of SCF-type E3 ligase complexes, leading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

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

Sequence similarities Belongs to the CSN3 family.
Contains 1 PCI domain.

Cellular localization Cytoplasm. Nucleus.

Images



Western blot - Anti-COPS3/CSN3 antibody [EPR3127] (ab79698)

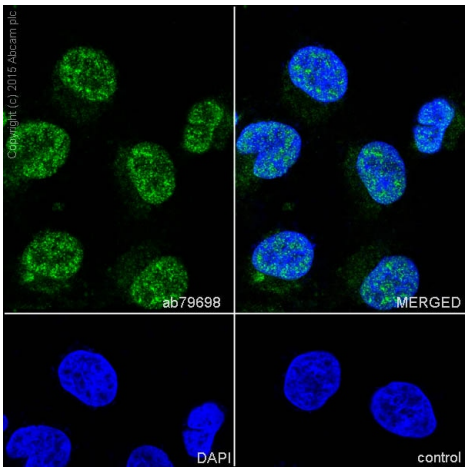
All lanes : Anti-COPS3/CSN3 antibody [EPR3127] (ab79698) at 1/20000 dilution

Lane 1 : HT-29 cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : SKBR-3 cell lysate
Lane 4 : 293T cell lysate

Lysates/proteins at 10 µg per lane.

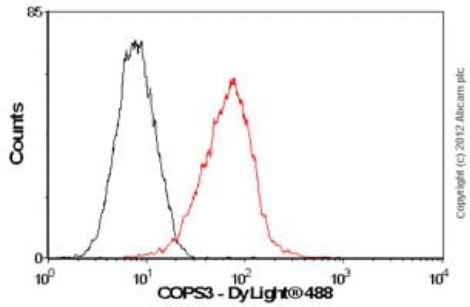
Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 48 kDa
Observed band size: 48 kDa



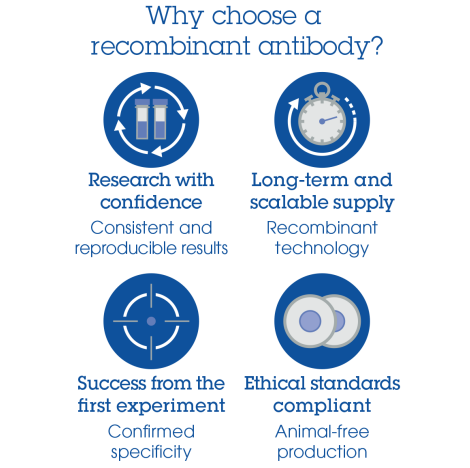
Immunocytochemistry/ Immunofluorescence - Anti-COPS3/CSN3 antibody [EPR3127] (ab79698)

Immunofluorescence staining of HeLa cells with purified ab79698 at a working dilution of 1/500, counter-stained with DAPI. The secondary antibody was an Alexa Fluor® 488 conjugated goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom right hand panel - for the negative control, PBS was used instead of the primary antibody.



Flow Cytometry (Intracellular) - Anti-COPS3/CSN3 antibody [EPR3127] (ab79698)

Overlay histogram showing HeLa cells stained with ab79698 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab79698, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HeLa cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Anti-COPS3/CSN3 antibody [EPR3127] (ab79698)

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