




Product datasheet

Anti-COPS3/CSN3 antibody ab229807

[1 References](#) [4 Images](#)

Overview

Product name	Anti-COPS3/CSN3 antibody
Description	Rabbit polyclonal to COPS3/CSN3
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Chicken, Cow, Xenopus laevis, Zebrafish, Cynomolgus monkey, Orangutan, Xenopus tropicalis 
Immunogen	Recombinant fragment corresponding to Human COPS3/CSN3 aa 150 to the C-terminus. Database link: Q9UNS2-1  Run BLAST with  Run BLAST with
Positive control	WB: MCF7, HeLa, HEK-293T and HT-29 whole cell lysates; Mouse heart, brain and ovarian lysates. IHC-P: Human testis and heart tissues. IP: HeLa whole cell lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab229807 in the following tested applications.

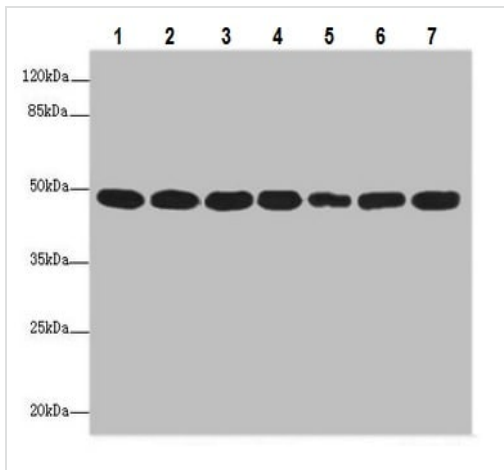
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/200.
WB		1/1000 - 1/5000. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).
IP		1/200 - 1/2000.

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, I kappa B alpha/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 (ab229807)

All lanes : Anti-COPS3/CSN3 antibody (ab229807) at 1/1000 dilution

Lane 1 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 3 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 4 : HT-29 (human colorectal adenocarcinoma cell line) whole cell lysate

Lane 5 : Mouse heart lysate

Lane 6 : Mouse brain lysate

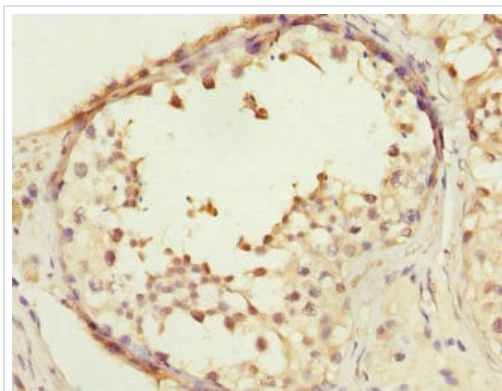
Lane 7 : Mouse ovarian lysate

Secondary

All lanes : Goat polyclonal to Rabbit IgG at 1/10000 dilution

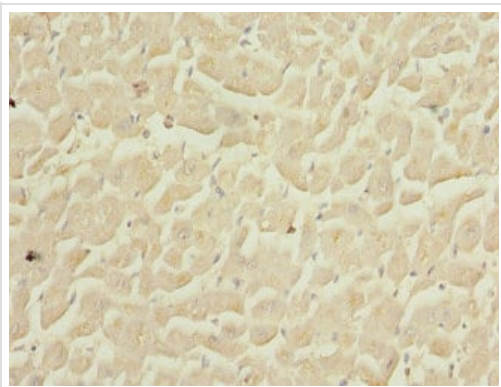
Predicted band size: 48 kDa

Observed band size: 45 kDa



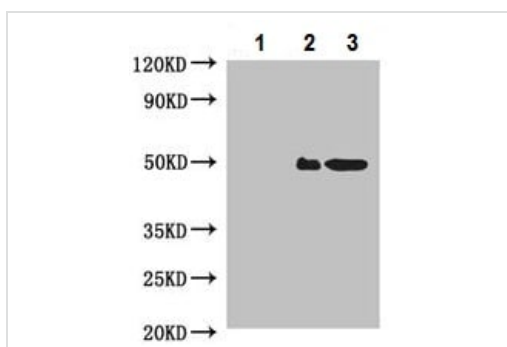
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COPS3/CSN3 antibody (ab229807)

Paraffin-embedded human testis tissue stained for COPS3/CSN3 using ab229807 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-COPS3/CSN3 antibody (ab229807)

Paraffin-embedded human heart tissue stained for COPS3/CSN3 using ab229807 at 1/100 dilution in immunohistochemical analysis.



Immunoprecipitation - Anti-COPS3/CSN3 antibody (ab229807)

COPS3/CSN3 was immunoprecipitated from 500 µg HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate with 4 µg ab229807.

Lane 1: Rabbit monoclonal IgG IP in HeLa whole cell lysate.

Lane 2: ab229807 IP in HeLa whole cell lysate.

Lane 3: HeLa whole cell lysate 20 µg.

For western blotting, an HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody at 1/50000 dilution.

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