abcam

ab124718

Anti-CSN7b antibody [EPR6465]

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR6465
Purification technique	Affinity purification Protein A
Concentration	0.907 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/10000 - 1/50000
Notes	-

Expected

Species	Mouse
Dilution info	1/10000 - 1/50000
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human

Dilution info	1/50 - 1/100
Notes	-

Expected

Species	Mouse
Dilution info	1/50 - 1/100
Notes	-

Predicted

Species	Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

Target data

See full target information COPS7B

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, 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.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

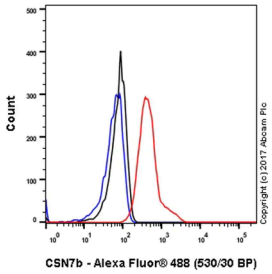
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

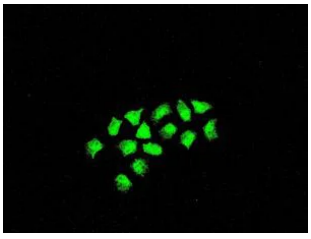
5 product images



Flow Cytometry (Intracellular) - Anti-CSN7b antibody [EPR6465] (ab124718)

CSN7b Flow Cytometry (Intracellular) staining using rabbit Anti-CSN7b antibody

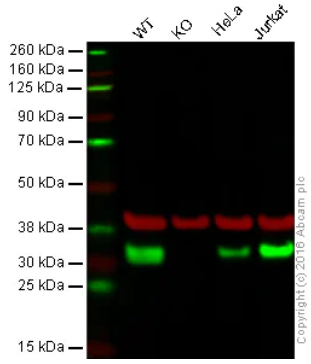
Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling CSN7b with unpurified ab124718 at 1/800 dilution (1ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti-rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Immunocytochemistry/ Immunofluorescence - Anti-CSN7b antibody [EPR6465] (ab124718)

CSN7b Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CSN7b antibody

ab124718, at 1/50, staining CSN7b in HeLa cells by Immunofluorescence.

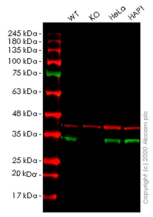


Western blot - Anti-CSN7b antibody [EPR6465] (ab124718)

CSN7b Western blot staining using rabbit Anti-CSN7b antibody

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: CSN7b knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: Jurkat cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab124718 observed at 32 kDa. Red - loading control, ab8245, observed at 37 kDa.
ab124718 was shown to specifically react with CSN7b when CSN7b knockout samples were used. Wild-type and CSN7b knockout samples were subjected to SDS-PAGE. ab124718 and ab8245 (loading control to GAPDH) were both diluted 1/10000 and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ab216776 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.
All lanes:
Western blot - Anti-CSN7b antibody [EPR6465] (ab124718)

Predicted band size: 30 kDa



Western blot - Anti-CSN7b antibody [EPR6465] (ab124718)

Lanes 1-4: Merged signal (red and green). Green - ab124718 observed at 32 kDa. Red - loading control ab8245 observed at 36 kDa.
ab124718 Anti-CSN7b antibody [EPR6465] was shown to specifically react with CSN7b in wild-type HEK293T cells. Loss of signal was observed when knockout cell line ab266646 (knockout cell lysate ab257895) was used. Wild-type and CSN7b knockout samples were subjected to SDS-PAGE. ab124718 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-CSN7b antibody [EPR6465] (ab124718) at 1/1000 dilution

Lane 1:
Wild-type HEK293T cell lysate at 20 µg

Lane 2:
COPS7B knockout HEK293T cell lysate at 20 µg

Lane 2:
Western blot - Human COPS7B (CSN7b) knockout HEK-293T cell line (ab266646)

Lane 3:
HeLa cell lysate at 20 µg

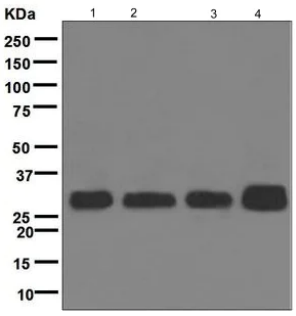
Lane 4:
HAP1 cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 30 kDa

Observed band size: 32 kDa



Western blot - Anti-CSN7b antibody [EPR6465] (ab124718)

All lanes:
Western blot - Anti-CSN7b antibody [EPR6465] (ab124718) at 1/10000 dilution

Lane 1:
Jurkat cell lysates at 10 µg

Lane 2:
HeLa cell lysates at 10 µg

Lane 3:
HL60 cell lysates at 10 µg

Lane 4:
HT-29 cell lysates at 10 µg

Secondary

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

Predicted band size: 30 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.