

Anti-CSN1 antibody [EP15642-22] ab194359

RabMAb

5 Images

Overview

Product name	Anti-CSN1 antibody [EP15642-22]
Description	Rabbit monoclonal [EP15642-22] to CSN1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa, K562, MCF7 and 293T cell lysates; Mouse brain, kidney, heart and spleen tissue lysates; Rat brain, kidney, heart and spleen tissue lysates; Human bladder transitional cell carcinoma and mouse kidney tissues; HeLa cells.
General notes	<p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 59% PBS, 40% Glycerol (glycerin, glycerine)</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EP15642-22
Isotype	IgG

Applications

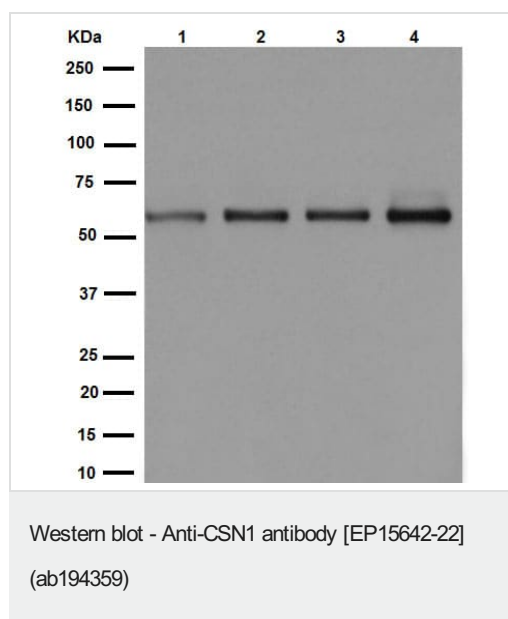
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab194359 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa).
IHC-P		1/150 - 1/300. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/150.

Target

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, 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. Suppresses G-protein-and mitogen-activated protein kinase-mediated signal transduction.
Tissue specificity	Widely expressed.
Sequence similarities	Belongs to the CSN1 family. Contains 1 PCI domain.
Domain	The PCI domain is necessary and sufficient for the interactions with other CSN subunits of the complex. Mediates the interaction with CAPN8. The N-terminal part (1-216), which is not required for deneddylating activity and CSN complex formation, is nevertheless essential for other aspects of CSN complex function, such as repression of c-fos/FOS expression.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm. Nucleus.

Images



All lanes : Anti-CSN1 antibody [EP15642-22] (ab194359) at 1/1000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : K562 cell lysate

Lane 3 : MCF7 cell lysate

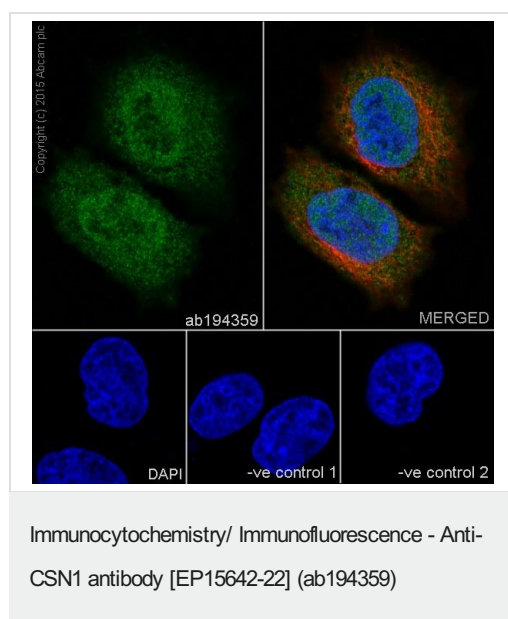
Lane 4 : 293T cell lysate

Lysates/proteins at 20 µg per lane.

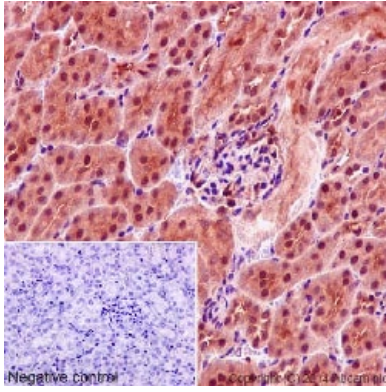
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 56 kDa



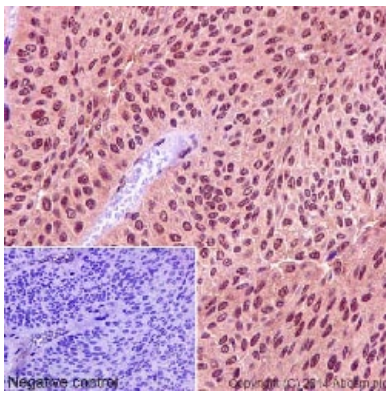
Immunofluorescent analysis of HeLa cells (4% Paraformaldehyde-fixed, 0.1% tritonX-100 permeabilized) labeling CSN1 with ab194359 at 1/150 dilution (12 µg/mL) followed by Goat anti rabbit IgG (AlexaFluor® 488) (**ab150077**) secondary at 1/400 dilution and counter-stained with DAPI (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CSN1 antibody [EP15642-22] (ab194359)

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling CSN1 with ab194359 at 1/300 (6µg/mL) dilution followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution ([ab97051](#)) and counter-stained with Hematoxylin. (inset: negative control).

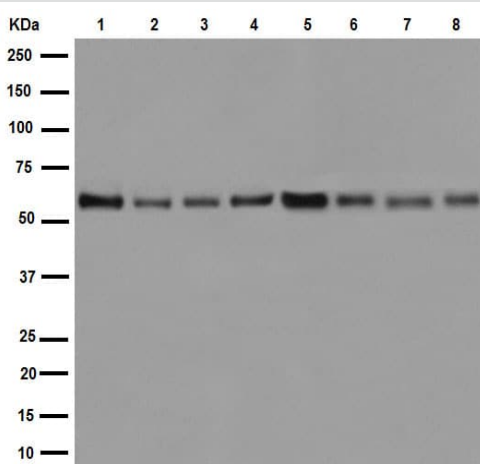
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CSN1 antibody [EP15642-22] (ab194359)

Immunohistochemical analysis of paraffin-embedded Human bladder transitional cell carcinoma tissue labeling CSN1 with ab194359 at 1/300 (6µg/mL) dilution followed by Goat Anti-Rabbit IgG H&L (HRP) at 1/500 dilution ([ab97051](#)) and counter-stained with Hematoxylin. (inset: negative control).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-CSN1 antibody [EP15642-22] (ab194359)

All lanes : Anti-CSN1 antibody [EP15642-22] (ab194359) at 1/1000 dilution

- Lane 1 :** Mouse brain tissue lysate
- Lane 2 :** Mouse heart tissue lysate
- Lane 3 :** Mouse kidney tissue lysate
- Lane 4 :** Mouse spleen tissue lysate
- Lane 5 :** Rat brain tissue lysate
- Lane 6 :** Rat heart tissue lysate
- Lane 7 :** Rat kidney tissue lysate
- Lane 8 :** Rat spleen tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at

1/1000 dilution

Predicted band size: 56 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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