


Product datasheet

Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5453] ab109525

Recombinant RabMAb

★★★★★ 1 Abreviews 4 References 4 Images

Overview

Product name	Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5453]
Description	Rabbit monoclonal [EPR5453] to Proteasome 20S alpha 2/HC3
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HepG2, 293T, HeLa or JAR cell lysate; Human brain tissue; HeLa cells
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <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>

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 EPR5453

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109525 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)	1/1000 - 1/10000. Predicted molecular weight: 25 kDa.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol. (Heat to 98°C, allow to cool for 10-20 minutes)
ICC/IF		1/50 - 1/100.

Application notes Is unsuitable for IP.

Target

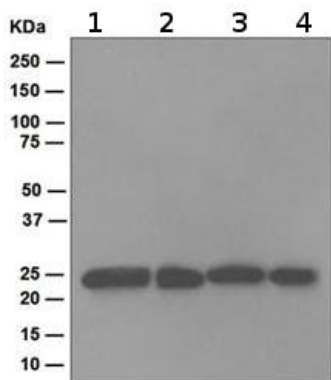
Function The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. PSMA2 may have a potential regulatory effect on another component(s) of the proteasome complex through tyrosine phosphorylation.

Sequence similarities Belongs to the peptidase T1A family.

Post-translational modifications Phosphorylated on tyrosine residues; which may be important for nuclear import.

Cellular localization Cytoplasm. Nucleus.

Images



Western blot - Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5453] (ab109525)

All lanes : Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5453] (ab109525) at 1/10000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : 293T (Human embryonic kidney epithelial cell) cell lysate

Lane 3 : HeLa cell lysate

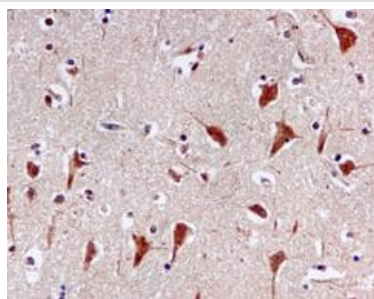
Lane 4 : JAR cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled Goat anti-Rabbit IgG at 1/2000 dilution

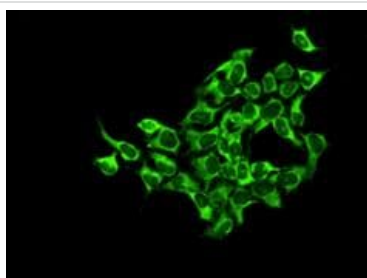
Predicted band size: 25 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5453] (ab109525)

ab109525, at a 1/250 dilution, staining Human Proteasome 20S alpha 2/HC3 in brain tissue, using Immunohistochemistry, (Formalin/PFA-fixed paraffin-embedded).

Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5453] (ab109525)

ab109525, at 1/50 dilution, staining Proteasome 20S alpha 2/HC3 in HeLa cells by Immunofluorescence.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Proteasome 20S alpha 2/HC3 antibody
[EPR5453] (ab109525)

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

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