abcam

Product datasheet

Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5454] ab109502

Recombinant RabMAb

2 References 3 Images

Overview

Product name	Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5454]
Description	Rabbit monoclonal [EPR5454] to Proteasome 20S alpha 2/HC3
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB **Unsuitable for:** ICC/IF,IHC-P or 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	WB: Jurkat, 293T, HeLa or JAR cell lysate. Flow Cyt (intra): HeLa cells.
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	EPR5454
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109502 in the following tested applications.

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

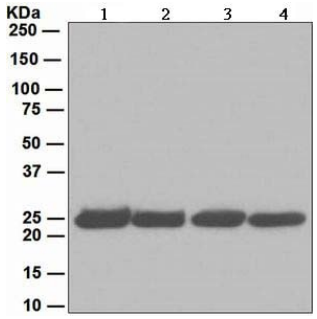
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000 - 1/50000. Predicted molecular weight: 26 kDa.

Application notes Is unsuitable for ICC/IF,IHC-P or 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 [EPR5454] (ab109502)

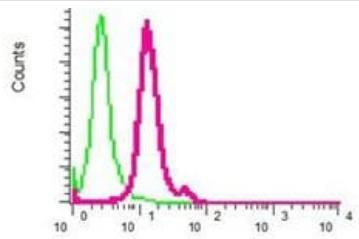
All lanes : Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5454] (ab109502) at 1/10000 dilution

Lane 1 : Jurkat cell lysate
Lane 2 : 293T cell lysate
Lane 3 : HeLa cell lysate
Lane 4 : JAR cell lysates

Lysates/proteins at 10 µg per lane.

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

Predicted band size: 26 kDa



Flow Cytometry (Intracellular) - Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5454] (ab109502)

Intracellular flow cytometric analysis of permeabilized HeLa cells using ab109502 at 1/10 dilution (red) and a control rabbit IgG (green).

Anti-Proteasome 20S alpha 2/HC3 antibody [EPR5454] (ab109502)

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