


Product datasheet

Anti-Proteasome 20S beta 6 antibody ab3331

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

Overview

Product name	Anti-Proteasome 20S beta 6 antibody
Description	Rabbit polyclonal to Proteasome 20S beta 6
Host species	Rabbit
Specificity	Detects proteasome 20S beta 6 from purified bovine and human 26S proteasome samples.
Tested applications	Suitable for: WB, ICC
Species reactivity	Reacts with: Mouse, Cow, Human Predicted to work with: Rat, Xenopus laevis, Zebrafish 
Immunogen	Synthetic peptide corresponding to Human Proteasome 20S beta 6 aa 41-58. Sequence: CRSGSAADTQAV/IADAVTY Database link: P28072 (Peptide available as ab4947)

 [Run BLAST with](#)

 [Run BLAST with](#)

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Constituents: 3% Sodium deoxycholate, 3% Triton-X-100, 0.3% Tris HCl, 15% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab3331** 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		Use a concentration of 1 µg/ml. Detects a band of approximately 25 kDa (predicted molecular weight: 25 kDa). Can be blocked with Human Proteasome 20S beta 6 peptide (ab4947) .
ICC		1/10 - 1/100.

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. This unit is responsible of the peptidyl glutamyl-like activity. May catalyze basal processing of intracellular antigens.

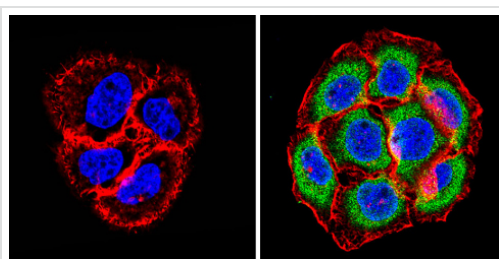
Sequence similarities

Belongs to the peptidase T1B family.

Cellular localization

Cytoplasm. Nucleus.

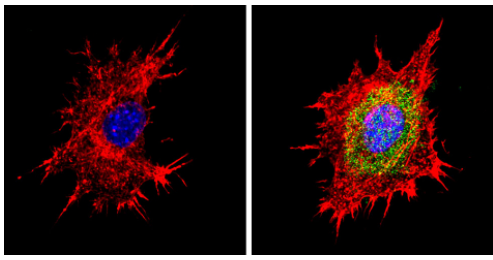
Images



Immunocytochemistry/ Immunofluorescence - Anti-Proteasome 20S beta 6 antibody (ab3331)

Immunocytochemistry/Immunofluorescence analysis of Proteasome 20S beta 6 (green) showing staining in the cytoplasm and nucleus of A431 cells (right) compared to a negative control without primary antibody (left).

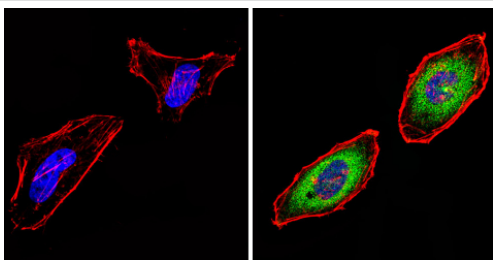
Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with ab3331 in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Immunocytochemistry/ Immunofluorescence - Anti-Proteasome 20S beta 6 antibody (ab33331)

Immunocytochemistry/Immunofluorescence analysis of Proteasome 20S beta 6 (green) showing staining in the cytoplasm and nucleus of BAEC cells (right) compared to a negative control without primary antibody (left).

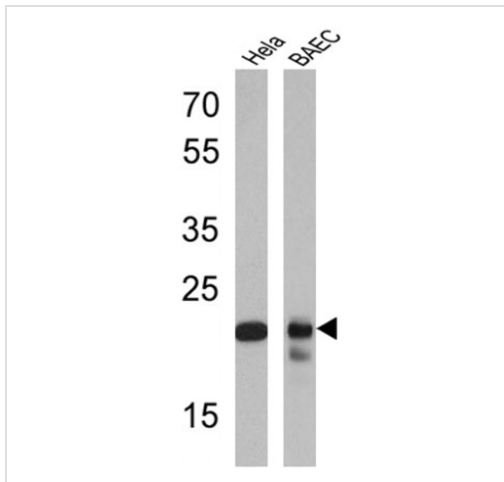
Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with ab33331 in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Immunocytochemistry/ Immunofluorescence - Anti-Proteasome 20S beta 6 antibody (ab33331)

Immunocytochemistry/Immunofluorescence analysis of Proteasome 20S beta 6 (green) showing staining in the cytoplasm and nucleus of HeLa cells (right) compared to a negative control without primary antibody (left).

Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with ab33331 in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.



Western blot - Anti-Proteasome 20S beta 6 antibody (ab3331)

All lanes : Anti-Proteasome 20S beta 6 antibody (ab3331) at 1/1000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : BAEC cell lysate

Lysates/proteins at 25 µg per lane.

Predicted band size: 25 kDa

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