abcam

Product datasheet

# Anti-Proteasome 20S beta 6 antibody ab3331

**1 References** 画像数 7

## 製品の概要

| | |
|---|---|
| **製品名** | Anti-Proteasome 20S beta 6 antibody |
| **製品の詳細** | Rabbit polyclonal to Proteasome 20S beta 6 |
| **由来種** | Rabbit |
| **特異性** | Detects proteasome 20S beta 6 from purified bovine and human 26S proteasome samples. |
| **アプリケーション** | **適用あり:** ICC/IF, WB |
| **種交差性** | **交差種:** Mouse, Rat, Cow, Human<br>**交差が予測される動物種:** Xenopus laevis, Zebrafish |
| **免疫原** | Synthetic peptide corresponding to Human Proteasome 20S beta 6 aa 41-58.<br>Sequence:<br>CRSGSAADTQAV/IADAVTY<br><br>Database link: **P28072**<br>(Peptide available as **ab4947**)<br>Run BLAST with Run BLAST with |
| **ポジティブ・コントロール** | WB: HeLa, BAEC whole cell lysates, HeLa, 3T3-L1, PC-3, MCF7, A549, PANC-1, Mouse Kidney, Mouse Liver and Rat Liver nuclear enriched cell lysate. ICC/IF: A431, HeLa, NIH 3T3, BAEC cells. |
| **特記事項** | Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.<br>It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.<br><br>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.<br><br>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 |

## 製品の特性

| | |
|---|---|
| **製品の状態** | Liquid |
| **保存方法** | 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. |
| **バッファー** | Constituents: 3% Sodium deoxycholate, 3% Triton-X-100, 0.3% Tris HCl, 15% Sodium chloride |
| **精製度** | Immunogen affinity purified |
| **ポリ/モノ** | ポリクローナル |
| **アイソタイプ** | IgG |

## アプリケーション

**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab3331の使用に適用されます**

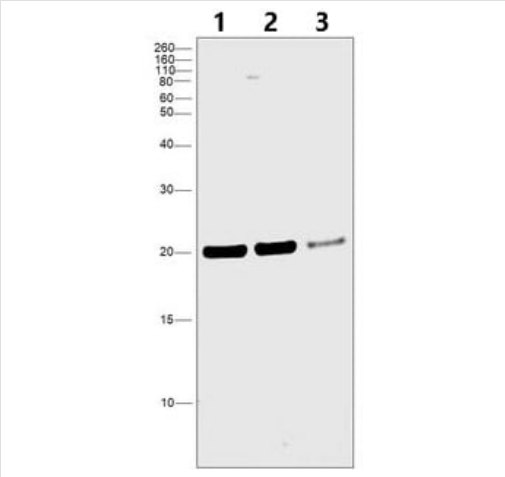
**アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。**

| アプリケーション | Abreviews | 特記事項 |
|---|---|---|
| **ICC/IF** | | 1/10 - 1/100. |
| **WB** | | Use a concentration of 1 µg/ml. Detects a band of approximately 25 kDa (predicted molecular weight: 25 kDa). |

## ターゲット情報

| | |
|---|---|
| **機能** | 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. |
| **配列類似性** | Belongs to the peptidase T1B family. |
| **細胞内局在** | Cytoplasm. Nucleus. |

## 画像



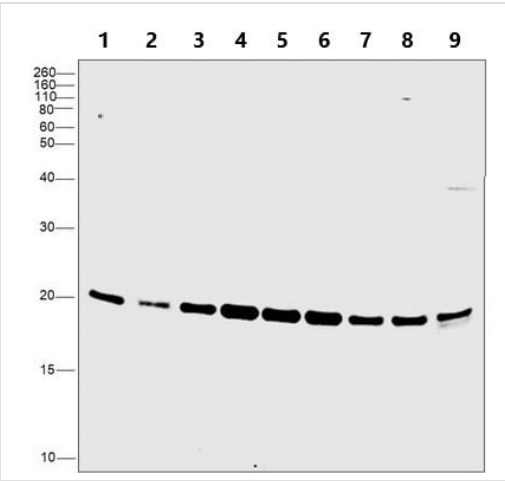

Western blot - Anti-Proteasome 20S beta 6 antibody (ab3331)

**All lanes :** Anti-Proteasome 20S beta 6 antibody (ab3331) at 1 µg/ml

**Lane 1 :** Nuclear enriched extracts from untransfected PC-3 cells
**Lane 2 :** Nuclear enriched extracts from non-targeting scrambled siRNA transfected PC-3 cells
**Lane 3 :** Nuclear enriched extracts from PSMB6 knockdown PC-3 cells

**Secondary**
**All lanes :** Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP at 1/6000 dilution

**Predicted band size:** 25 kDa




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

**All lanes :** Anti-Proteasome 20S beta 6 antibody (ab3331) at 1 µg/ml

**Lane 1 :** HeLa nuclear enriched extract lysate
**Lane 2 :** 3T3-L1 nuclear enriched extract lysate
**Lane 3 :** PC-3 nuclear enriched extract lysate
**Lane 4 :** MCF7 nuclear enriched extract lysate
**Lane 5 :** A549 nuclear enriched extract lysate
**Lane 6 :** PANC-1 nuclear enriched extract lysate
**Lane 7 :** Mouse Kidney nuclear enriched extract lysate
**Lane 8 :** Mouse Liver nuclear enriched extract lysate
**Lane 9 :** Rat Liver nuclear enriched extract lysate

Lysates/proteins at 30 µg per lane.

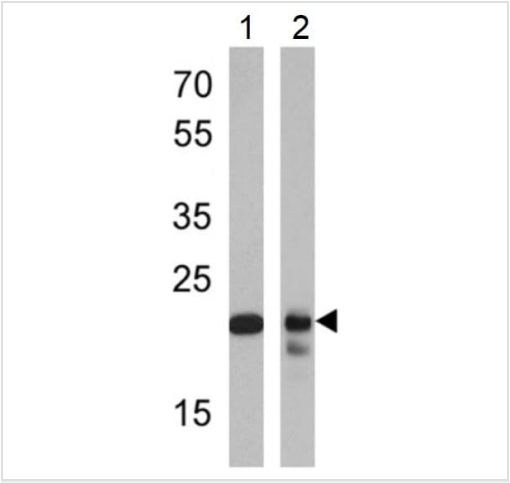
**Secondary**
**All lanes :** Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP at 1/6000 dilution

Developed using the ECL technique.

**Predicted band size:** 25 kDa
**Observed band size:** 21 kDa

Samples were electrophoresed using NuPAGE™ 12% Bis-Tris Protein Gel and the resolved proteins were then transferred onto a

Nitrocellulose membrane by iBlot® 2 Dry Blotting System. The blot was probed with the primary antibody (ab3331) and detected by chemiluminescence with secondary antibody using the iBright FL 1000. Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit.




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

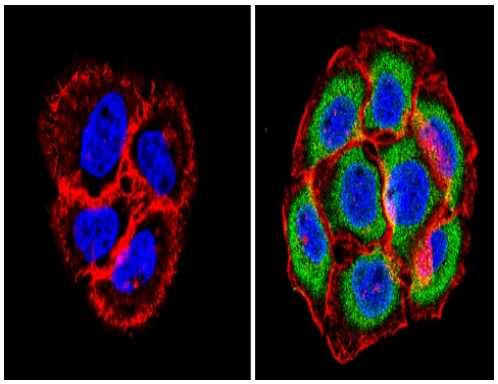
**All lanes :** Anti-Proteasome 20S beta 6 antibody (ab3331) at 1/1000 dilution

**Lane 1 :** HeLa (Human epithelial adenocarcinoma cell line) whole cell lysate
**Lane 2 :** BAEC (Bovine aortic endothelial cell line) whole cell lysate

Lysates/proteins at 25 µg per lane.

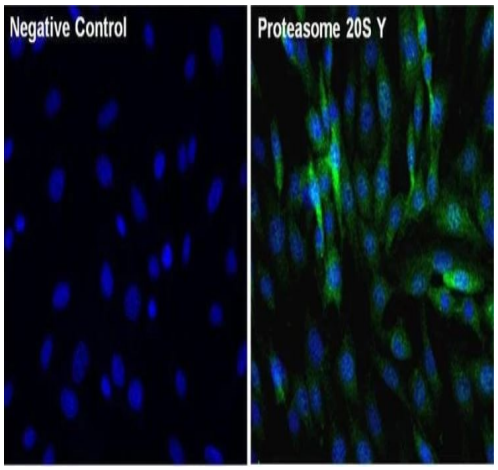
**Secondary**
**All lanes :** HRP-conjugated secondary antibody

**Predicted band size:** 25 kDa



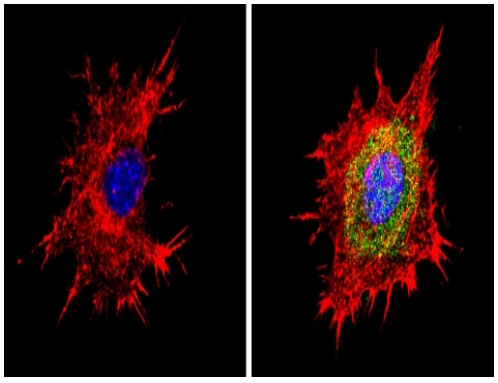
Immunocytochemistry/ Immunofluorescence - Anti-Proteasome 20S beta 6 antibody (ab3331)

Immunocytochemistry/Immunofluorescence analysis of Proteasome 20S beta 6 (green) showing staining in the cytoplasm and nucleus of A431 (Human epidermoid carcinoma cell line) 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 4ºC 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.



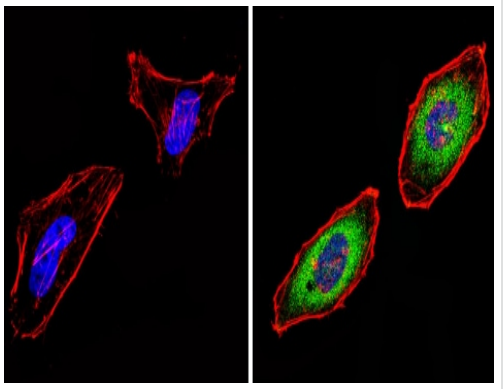

Immunocytochemistry/ Immunofluorescence - Anti-Proteasome 20S beta 6 antibody (ab3331)

Immunofluorescent analysis of Proteasome 20S Y (green) in NIH/3T3 (Mouse embryo fibroblast cell line) cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes and blocked with 3% Blocker BSA in PBS for 30 minutes at room temperature. Cells were stained with or without Proteasome 20S Y rabbit polyclonal antibody, at a concentration of 5 µg/mL for 1 hour at room temperature, and then incubated with a Goat anti-Rabbit (H+L) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate at 1/1000 dilution for 1 hour at room temperature (both panels, green). Nuclei (both panels, blue) were stained with Hoechst 33342 dye. Images were taken at 20X magnification.



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 BAEC (Bovine aortic endothelial cell line) 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 4ºC 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 (ab3331)

Immunocytochemistry/Immunofluorescence analysis of Proteasome 20S beta 6 (green) showing staining in the cytoplasm and nucleus of HeLa (Human epithelial adenocarcinoma cell line) 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 4ºC 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.



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