

Product datasheet

Anti-Proteasome Activator Subunit 4/PSME4 antibody [EPR13577(B)] - BSA and Azide free ab238996

Recombinant RabMAb

[4 Images](#)

Overview

Product name	Anti-Proteasome Activator Subunit 4/PSME4 antibody [EPR13577(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR13577(B)] to Proteasome Activator Subunit 4/PSME4 - BSA and Azide free
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Proteasome Activator Subunit 4/PSME4 aa 1750 to the C-terminus. The exact sequence is proprietary. Database link: Q14997
Positive control	IHC-P: Human liver tissue.
General notes	ab238996 is the carrier-free version of ab181203 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

Use our [conjugation kits](#) for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Ab238996 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product was previously labelled as Proteasome Activator Subunit 4

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](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13577(B)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab238996** in the following tested applications.

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

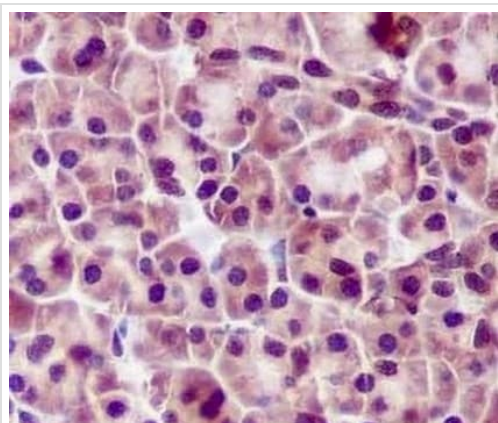
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 200 kDa (predicted molecular weight: 211 kDa).

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Activates proteasomal cleavage of peptides in an energy-independent manner. May be involved in spermatogenesis. May be involved in DNA repair.
Sequence similarities	Contains 6 HEAT repeats.
Cellular localization	Nucleus. Nucleus speckle. Found in nuclear foci following treatment with ionizing radiation, but not with ultraviolet irradiation or H(2).

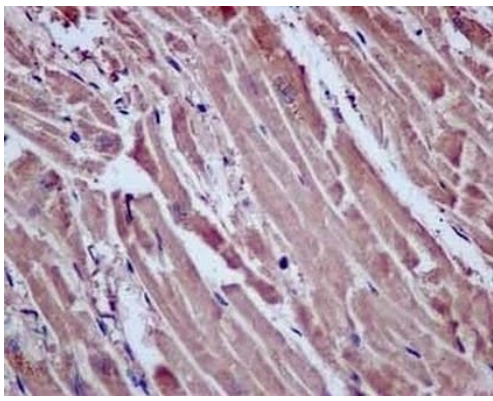
Images



Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling Proteasome Activator Subunit 4/PSME4 with unpurified [ab181203](#) at 1/100 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab181203](#)).

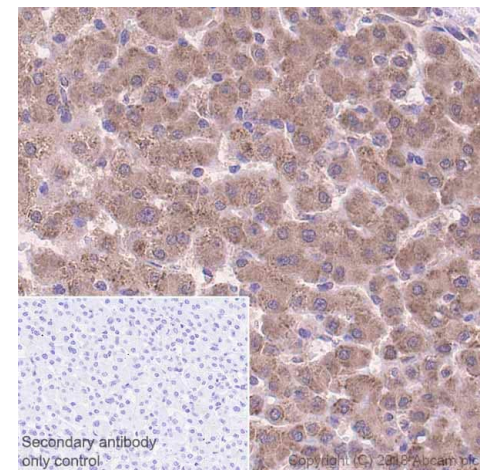
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Proteasome Activator Subunit 4/PSME4 antibody [EPR13577(B)] - BSA and Azide free ([ab238996](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Proteasome Activator Subunit 4/PSME4 antibody [EPR13577(B)] - BSA and Azide free (ab238996)

Immunohistochemical analysis of paraffin-embedded Human cardiac muscle tissue labeling unpurified Proteasome Activator Subunit 4/PSME4 with [ab181203](#) at 1/100 dilution followed by pre-diluted HRP-conjugated secondary antibody and counter-stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab181203](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Proteasome Activator Subunit 4/PSME4 antibody [EPR13577(B)] - BSA and Azide free (ab238996)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver tissue sections labeling Proteasome Activator Subunit 4/PSME4 with purified [ab181203](#) at 1:1000 dilution (0.59 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody.

Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide ([ab181203](#)).

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

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

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