

## Product datasheet

# Anti-GSDMB antibody [EPR20841] ab215729

Recombinant RabMAb

1 References 6 Images

### Overview

<b>Product name</b>	Anti-GSDMB antibody [EPR20841]
<b>Description</b>	Rabbit monoclonal [EPR20841] to GSDMB
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, Flow Cyt, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein within Human GSDMB. The exact sequence is proprietary. Database link: <a href="#">Q8TAX9</a>
<b>Positive control</b>	WB: HEK-293T transfected with human DDDDK tagged GSDMB expression vector whole cell lysate; A431 whole cell lysate. Flow Cyt: A431 cells. IP: HEK-293T transfected with DDDDK tagged GSDMB expression vector whole cell lysate.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise<sup>™</sup> guarantee.</p> <p>In preparation for this, we have started to update the applications &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.</p>

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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR20841
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab215729** 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		1/1000. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).
Flow Cyt		1/600.
IP		1/30.

## Target

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<b>Function</b>	The N-terminal moiety promotes pyroptosis. May be acting by homooligomerizing within the membrane and forming pores (PubMed:27281216). The physiological relevance of this observation is unknown.
<b>Tissue specificity</b>	In the gastrointestinal tract, expressed in proliferating cells, including in the basal cell layer of esophagus and in isthmus/neck of stomach.
<b>Sequence similarities</b>	Belongs to the gasdermin family.
<b>Domain</b>	Intramolecular interactions between N- and C-terminal domains may be important for autoinhibition in the absence of activation signal. The intrinsic pyroptosis-inducing activity is carried by the N-terminal domain.

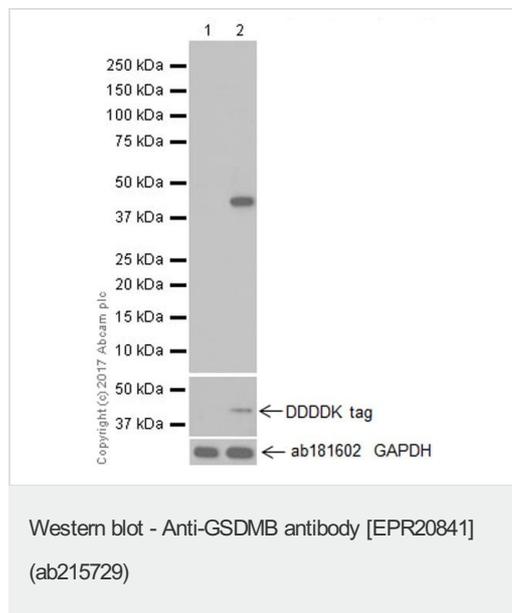
## Cellular localization

Cytoplasm. Cytoplasm, cytosol. Cell membrane. Vesicular localization in the apical region of gastric chief cells and colonic surface mucous cells, and the basal region of neuroendocrine cells.

## Form

There are 5 isoforms produced by alternative splicing.

## Images



**All lanes :** Anti-GSDMB antibody [EPR20841] (ab215729) at 1/1000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen), transfected with an empty vector (vector control), containing a DDDDK tag, whole cell lysate

**Lane 2 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen), transfected with human DDDDK tagged GSDMB expression vector, whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

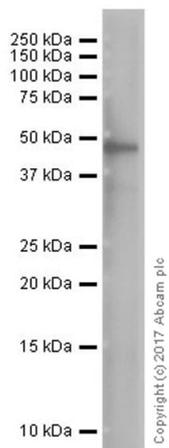
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 46 kDa

**Observed band size:** 46 kDa

**Exposure time:** 10 seconds



Western blot - Anti-GSDMB antibody [EPR20841] (ab215729)

Anti-GSDMB antibody [EPR20841] (ab215729) at 1/1000 dilution + A431 (human epidermoid carcinoma cell line) whole cell lysate at 10 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

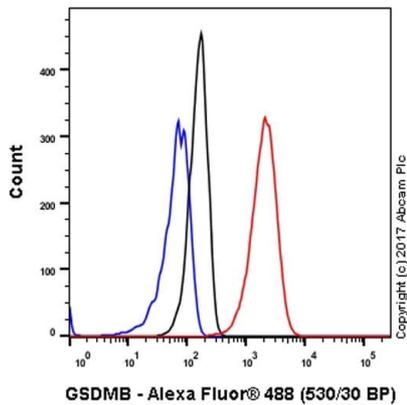
Developed using the ECL technique.

**Predicted band size:** 46 kDa

**Observed band size:** 46 kDa

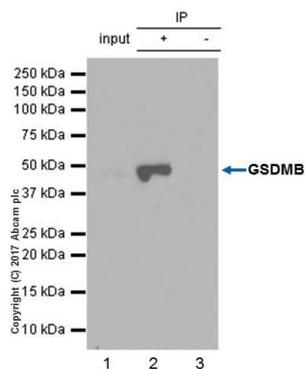
**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Flow Cytometry - Anti-GSDMB antibody [EPR20841] (ab215729)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized A431 (human epidermoid carcinoma cell line) cell line labeling GSDMB with ab215729 at 1/600 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-GSDMB antibody  
[EPR20841] (ab215729)

GSDMB was immunoprecipitated from 0.35 mg of A431 (human epidermoid carcinoma cell line) whole cell lysate with ab215729 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab215729 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/1,000 dilution

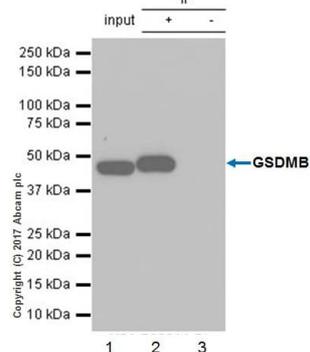
Lane 1: A431 whole cell lysate 10 µg (Input).

Lane 2: ab215729 IP in A431 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab215729 in A431 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.



Immunoprecipitation - Anti-GSDMB antibody  
[EPR20841] (ab215729)

GSDMB was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with DDDDK tagged GSDMB expression vector, whole cell lysate with ab215729 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab215729 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10,000 dilution

Lane 1: HEK-293T transfected with DDDDK tagged GSDMB expression vector, whole cell lysate 10 µg (Input).

Lane 2: ab215729 IP in HEK-293T transfected with DDDDK tagged GSDMB expression vector, whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab215729 in HEK-293T transfected with DDDDK tagged GSDMB expression vector, whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-GSDMB antibody [EPR20841] (ab215729)

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

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