

# Anti-GSDMD antibody [EPR20859] - BSA and Azide free ab239377

KO VALIDATED Recombinant RabMAb

[3 References](#) [7 Images](#)

### Overview

<b>Product name</b>	Anti-GSDMD antibody [EPR20859] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR20859] to GSDMD - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	<p>This antibody can detect full length, as well as a N-terminal fragment after stimulation in WB.</p> <p>Expression level of GSDMD in whole normal brain lysate is low or undetectable (PMID: 32671214, PMID: 34975487), we recommend loading higher amount of lysate or using lower antibody dilution.</p>
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), IHC-P, WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat
<b>Immunogen</b>	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Wild-type mouse liver and lung whole cell lysates; C6, PC-12, RAW 264.7 and NIH/3T3 whole cell lysates; Rat brain and liver lysates, IHC-P: Wild type mouse small intestine and mouse lung tissues. Flow Cyt (intra): RAW 264.7 cells. IP: RAW 264.7 whole cell lysate.
<b>General notes</b>	<p>ab239377 is the carrier-free version of <a href="#">ab219800</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <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></ul>

- Long-term security of supply

- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR20859
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab239377 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
<b>Flow Cyt (Intra)</b>		Use at an assay dependent concentration.
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
<b>WB</b>		Use at an assay dependent concentration. Detects a band of approximately 53 kDa (predicted molecular weight: 53 kDa).
<b>IP</b>		Use at an assay dependent concentration.

## Target

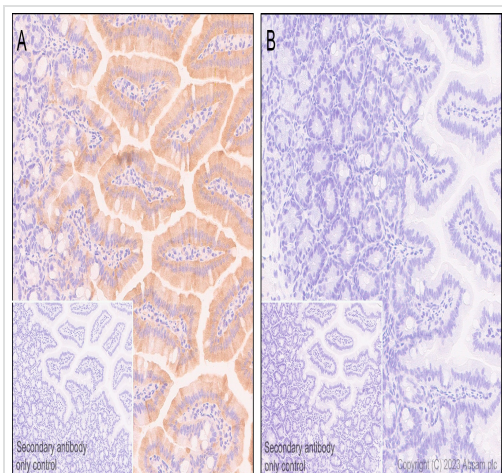
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**Sequence similarities** Belongs to the gasdermin family.

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## Images

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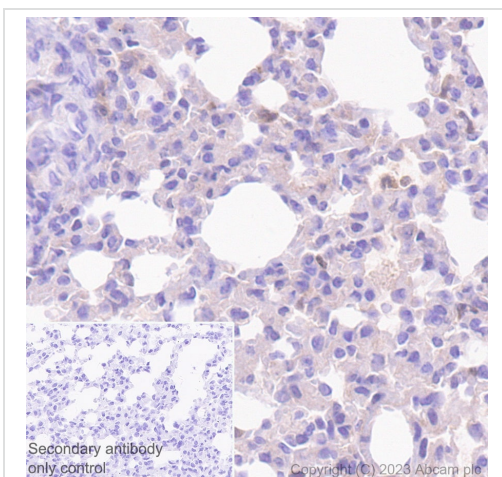


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GSDMD antibody [EPR20859] - BSA and Azide free (ab239377)

This data was developed using [ab219800](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded (A) Small intestine tissue from wild-type C57BL/6JGpt mice (B) Small intestine tissue from GSDMD knockout mice staining with [ab219800](#) at 1/5000 dilution and ready-to-use Goat Anti-Rabbit IgG H&L (HRP) secondary. Counterstaining with hematoxylin. Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins. Positive staining on (A) Small intestine tissue from wild-type C57BL/6JGpt mice and no staining on (B) Small intestine tissue from GSDMD knockout mice.

The section was incubated with [ab219800](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND™ RX instrument. The tissue samples were kindly provided by GemPharmatech. C57BL/6JGpt wildtype mice and GSDMD-KO homozygous mice (Strain ID: T010437).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GSDMD antibody [EPR20859] - BSA and Azide free (ab239377)

Immunohistochemical analysis of paraffin-embedded mouse lung tissue labelling GSDMD with [ab219800](#) at 1/1000 (0.542 µg/ml) followed by [ab214880](#) at a ready to use dilution. **Low expression tissue:** weak staining on mouse lung. The section was incubated with [ab219800](#) at 4°C overnight. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is [ab214880](#) at a ready to use dilution.

Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab219800](#)).



Immunoprecipitation - Anti-GSDMD antibody [EPR20859] - BSA and Azide free (ab239377)

GSDMD was immunoprecipitated from 0.35 mg of RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate with **ab219800** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab219800** at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

**Lane 1:** RAW 264.7 whole cell lysate 10 µg (Input).

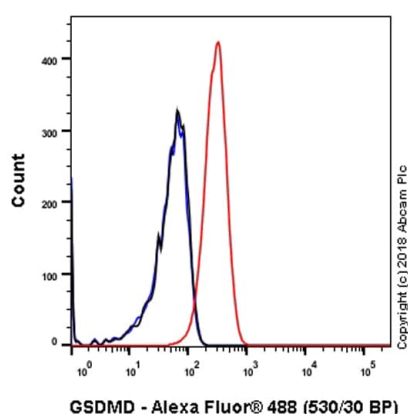
**Lane 2:** **ab219800** IP in RAW 264.7 whole cell lysate.

**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of **ab219800** in RAW 264.7 whole cell lysate.

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

Exposure time: 10 seconds.

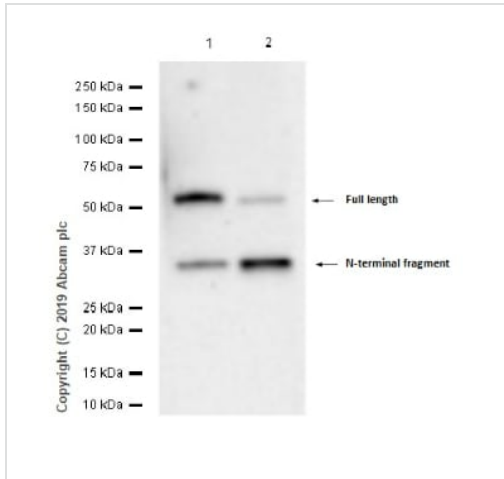
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab219800**).



Flow Cytometry (Intracellular) - Anti-GSDMD antibody [EPR20859] - BSA and Azide free (ab239377)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) cell line labeling GSDMD with **ab219800** at 1/500 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab219800**).



Western blot - Anti-GSDMD antibody [EPR20859] - BSA and Azide free (ab239377)

**All lanes :** Anti-GSDMD antibody [EPR20859] ([ab219800](#)) at 1/2000 dilution

**Lane 1 :** iBMM (mouse immortalized bone marrow derived macrophages) treated with 500ng/ml Bsak plus 500ng/ml anthrax protective antigen (PA) for 2h. Cell lysate

**Lane 2 :** iBMM (mouse immortalized bone marrow derived macrophages) treated with 500ng/ml Bsak plus 500ng/ml anthrax protective antigen (PA) for 2h. Concentrated cell supernatant

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 53 kDa

**Observed band size:** 31,53 kDa

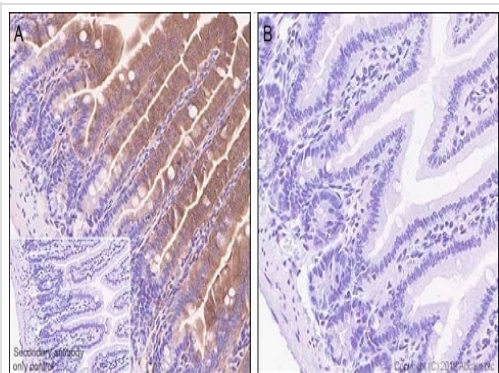
**Exposure time:** 180 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab219800](#)).

**Blocking and diluting buffer:** 5% NFDN /TBST

This antibody could detect full length, as well as a N-terminal fragment after stimulation.

The tissue samples were kindly provided by Dr Feng Shao's lab, NIBS



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GSDMD antibody [EPR20859] - BSA and Azide free (ab239377)

Immunohistochemical analysis of paraffin-embedded Wild type mouse small intestine (A) and GSDMD KO mouse small intestine (B) tissue labeling GSDMD with **ab219800** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Cytoplasmic staining on epithelium of wild type mouse small intestine (A), no staining on GSDMD KO mouse small intestine (B) (PMID: 17350798) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab219800**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

The tissue samples were kindly provided by Dr Feng Shao's lab, NIBS.

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>

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