

# Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free ab223877

KO VALIDATED Recombinant RabMAB

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

### Overview

<b>Product name</b>	Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR19859] to DFNA5/GSDME - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	Our previous testing data indicates that this antibody detects no signal or very weak signal in mouse heart, spleen, lung, stomach, testicle, skin, pancreas, muscle and lymph node tissues. Final results may be affected by the expression level of the tested samples.
<b>Tested applications</b>	<b>Suitable for:</b> IP, Flow Cyt (Intra), WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: SH-SY5Y and EMT6 whole cell lysates; Human fetal brain lysate; Mouse and rat brain lysates; HEK-293 transfected with DDDDK tagged DFNA5/GSDME (N-terminal) expression vector whole cell lysate. Flow Cyt (intra): SH-SY5Y cells.
<b>General notes</b>	<p>ab223877 is the carrier-free version of <a href="#">ab215191</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>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>

## 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>	EPR19859
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab223877 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
IP		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa).

## Target

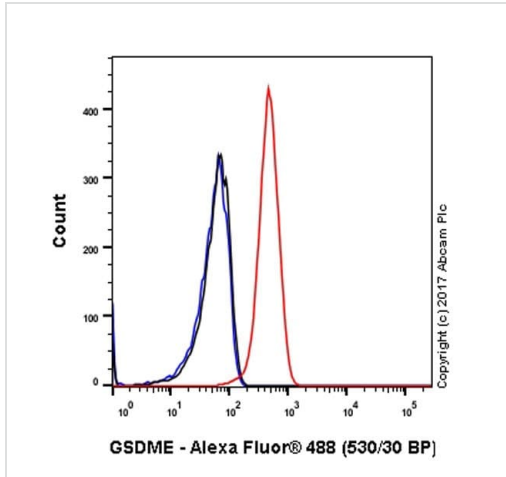
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<b>Tissue specificity</b>	Expressed in cochlea. Low level of expression in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas, with highest expression in placenta.
<b>Involvement in disease</b>	Defects in DFNA5 are the cause of deafness autosomal dominant type 5 (DFNA5) [MIM:600994]. DFNA5 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information.
<b>Sequence similarities</b>	Belongs to the gasdermin family.

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## Images

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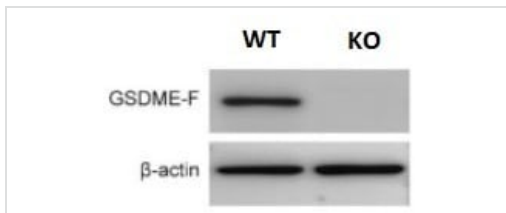


Flow Cytometry (Intracellular) - Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free (ab223877)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized EMT6 cell line labeling DFNA5/GSDME with **ab215191** 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.

EMT6 cells were kindly provided by our collaborator Dr. Feng Shao, NIBS

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215191**).



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free (ab223877)

Image from Wang Y et al., Biochem Biophys Res Commu. 2018;495(1):1418-1425. Fig 4(A); 10.1016/j.bbrc.2017.11.156 with permission from Elsevier.

**All lanes** : Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (**ab215191**) at 1/1000 dilution

**Lane 1** : Wild Type SGC-7901 cell lysates

**Lane 2** : DFNA5/GSDME Knockout SGC-7901 cell lysates

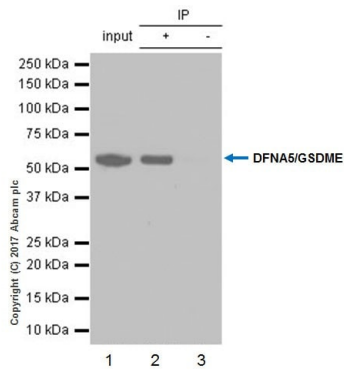
### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab6721**) at 1/2000 dilution

**Predicted band size:** 55 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215191**).

<https://www.sciencedirect.com/journal/biochemical-and-biophysical-research-communications>



Immunoprecipitation - Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free (ab223877)

**ab215191** at 1/30 immunoprecipitating DFNA5/GSDME in EMT6 whole cell lysate.

Lane 1 (input): EMT6 whole cell lysate (10µg)

Lane 2 (+): **ab215191** + EMT6 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab215191** in EMT6 whole cell lysate

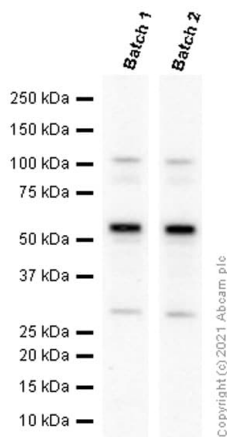
For western blotting, **ab215191** at 1/500 and **ab131366** VeriBlot for IP Detection Reagent (HRP) was used at 1/1000.

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm /TBST.

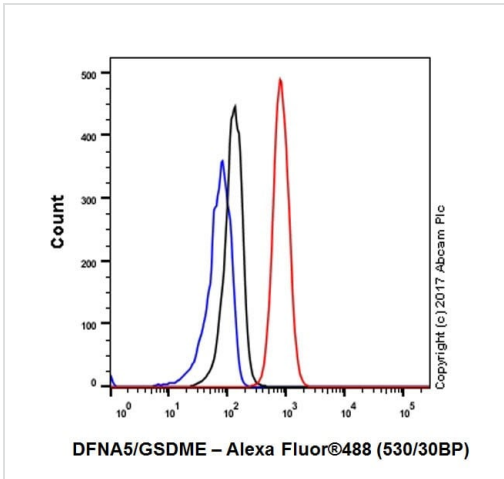
EMT6 cells were kindly provided by our collaborator Dr. Feng Shao, NIBS

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab215191**).



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free (ab223877)

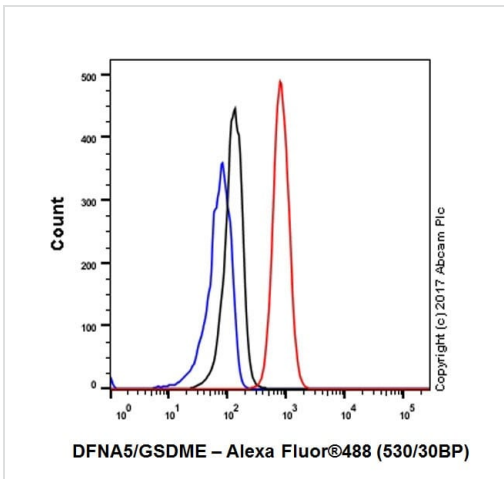
This data was developed using **ab215191**, the same antibody clone in a different buffer formulation. Different batches of **ab215191** were tested on SH-SY5Y (Human neuroblastoma epithelial cell) lysate at 0.6 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 55 kDa.



Flow Cytometry (Intracellular) - Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free (ab223877)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized SH-SY5Y (human neuroblastoma cell line from bone marrow) cell line labeling DFNA5/GSDME with **ab215191** at 1/60 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 (**ab215191**).



Flow Cytometry (Intracellular) - Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free (ab223877)

This Flow Cyt data was generated using the same anti-DFNA5/GSDME antibody clone [EPR19859] in a different buffer formulation (cat

**ab215191**).

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized SH-SY5Y (human neuroblastoma cell line from bone marrow) cell line labeling DFNA5/GSDME with **ab215191** at 1/60 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.

### 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

Anti-DFNA5/GSDME antibody [EPR19859] - BSA and Azide free (ab223877)

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

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