abcam

Product datasheet

Anti-GSDMB antibody [EPR20841] ab215729

Recombinant RabMAb

2 References 6 Images

Overview

Product name	Anti-GSDMB antibody [EPR20841]
Description	Rabbit monoclonal [EPR20841] to GSDMB
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, Flow Cyt (Intra)
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein within Human GSDMB. The exact sequence is proprietary. Database link: **Q8TAX9**
Positive control	WB: HEK-293T transfected with human DDDDK tagged GSDMB expression vector whole cell lysate; A431 whole cell lysate. Flow Cyt (intra): A431 cells. IP: HEK-293T transfected with DDDDK tagged GSDMB expression vector whole cell lysate.
General notes	This antibody was developed in collaboration with Dr Feng Shao's lab, NIBS. 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**.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR20841
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab215729 in the following tested applications.

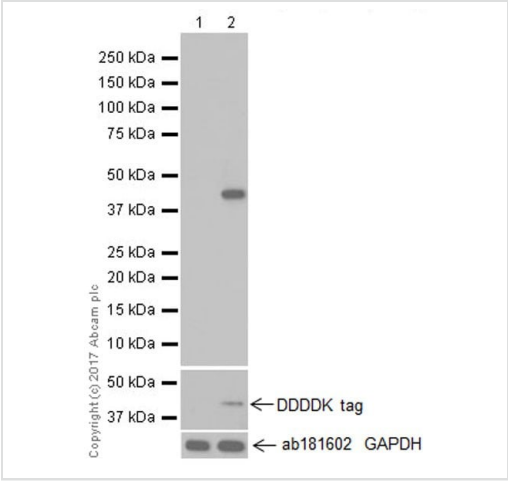
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).
IP		1/30.
Flow Cyt (Intra)		1/600.

Target

Function	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.
Tissue specificity	In the gastrointestinal tract, expressed in proliferating cells, including in the basal cell layer of esophagus and in isthmus/neck of stomach.
Sequence similarities	Belongs to the gasdermin family.
Domain	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



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

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

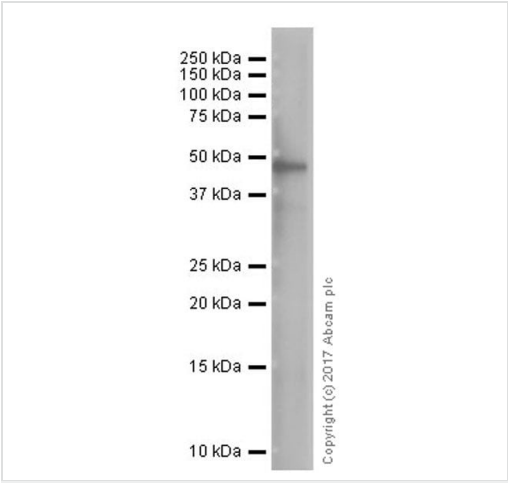
Lysates/proteins at 10 µg per lane.

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

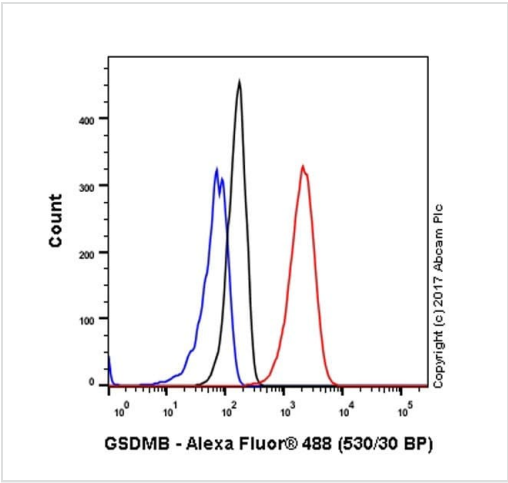
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Developed using the ECL technique.

Predicted band size: 46 kDa
Observed band size: 46 kDa

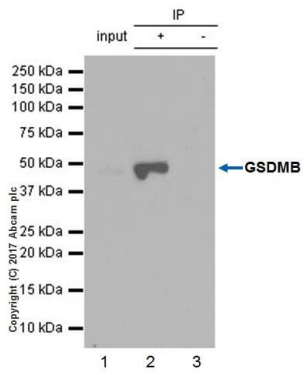
Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



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

Intracellular 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

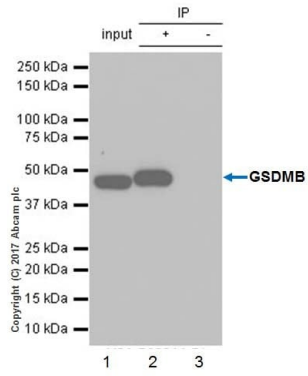
Lane 1: A431 whole cell lysate 10 µg (Input).

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

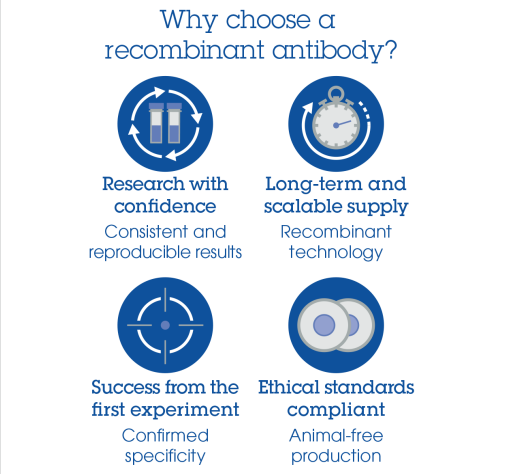
Lane 1: HEK-293T transfected with DDDDK tagged GSDMB expression vector, whole cell lysate 10 µg (Input).

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.



Anti-GSDMB antibody [EPR20841] (ab215729)

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