

Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal ab215191

KO 評価済 リコンビナント RabMAb

★★★★★ [4 Abreviews](#) [97 References](#) [画像数 12](#)

製品の概要

製品名	Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal
製品の詳細	Rabbit monoclonal [EPR19859] to DFNA5/GSDME - N-terminal
由来種	Rabbit
特異性	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.
アプリケーション	適用あり: WB, IP, Flow Cyt (Intra)
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse brain lysate; SH-SY5Y and EMT6 whole cell lysates; Human fetal brain lysate; Rat brain lysates; HEK-293 transfected with DDDDK tagged DFNA5/GSDME (N-terminal) expression vector whole cell lysate; SGC-7901 cell lysate. Flow Cyt (intra).: SH-SY5Y and EMT6 cells. IP: EMT6 whole cell lysate
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- 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 .

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide

	Constituents: 0.05% BSA, 40% Glycerol, PBS
精製度	Protein A purified
ポリモノ	モノクローナル
クローン名	EPR19859
アイソタイプ	IgG

アプリケーション

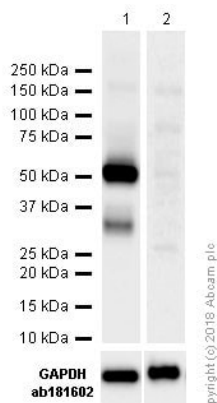
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab215191の使用に適用されます**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (3)	1/1000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa). 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.
IP		1/30.
Flow Cyt (Intra)		1/60.

ターゲット情報

組織特異性	Expressed in cochlea. Low level of expression in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas, with highest expression in placenta.
関連疾患	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.
配列類似性	Belongs to the gasdermin family.

画像



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

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

Lane 1 : SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates with 5% NFDN/TBST

Lane 2 : SW480 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates with 5% NFDN/TBST

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 55 kDa

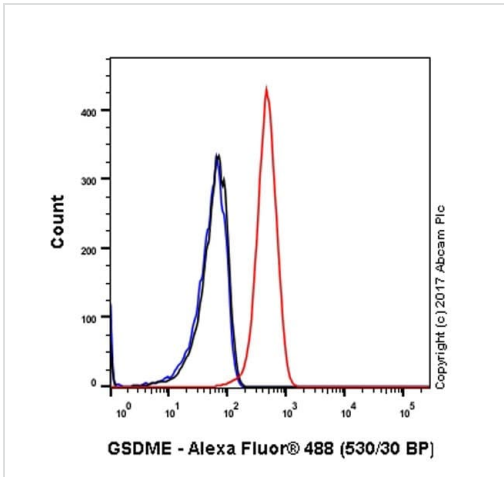
Observed band size: 55 kDa

Exposure times:

Lane 1: 15s

Lane 2: 3 min

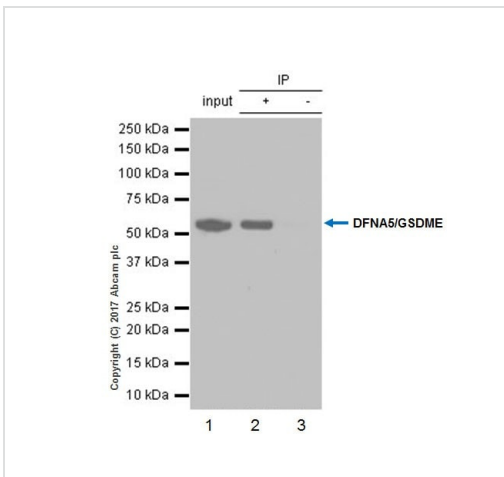
The band around 35kDa is GSDME-NT which might be cleaved by activated caspase-3 (PMID: 33589596, PMID: 31347748, PMID: 35623158).



Flow Cytometry (Intracellular) - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized EMT6 (mouse mammary carcinoma cell line) 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



Immunoprecipitation - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

ab215191 at 1/30 immunoprecipitating DFNA5/GSDME in EMT6 (mouse mammary carcinoma cell line) whole cell lysate.

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

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

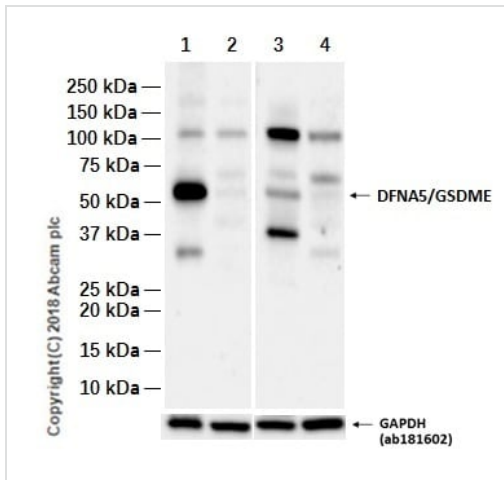
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab215191 in EMT6 whole cell lysate

For western blotting, ab215191 at 1/500. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1,000 dilution

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



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

All lanes : Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191) at 0.7 µg/ml

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse kidney tissue lysate

Lane 3 : Mouse liver tissue lysate

Lane 4 : Mouse thymus tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

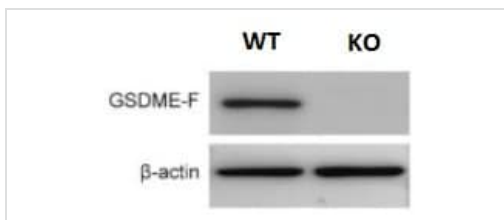
All lanes : Goat Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG) at 1/2000 dilution

Predicted band size: 55 kDa

Observed band size: 55 kDa

Exposure time: 3 minutes

Blocking and diluting buffer: 5% NFDm/TBST



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

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 (human papillomavirus-related endocervical adenocarcinoma cell line) cell lysates

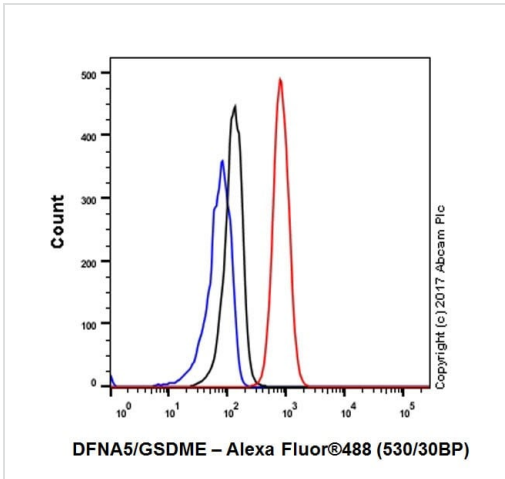
Lane 2 : DFNA5/GSDME Knockout SGC-7901 cell lysates

Secondary

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

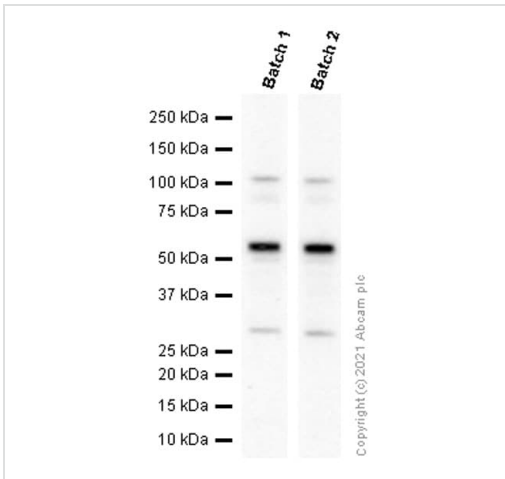
Predicted band size: 55 kDa

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



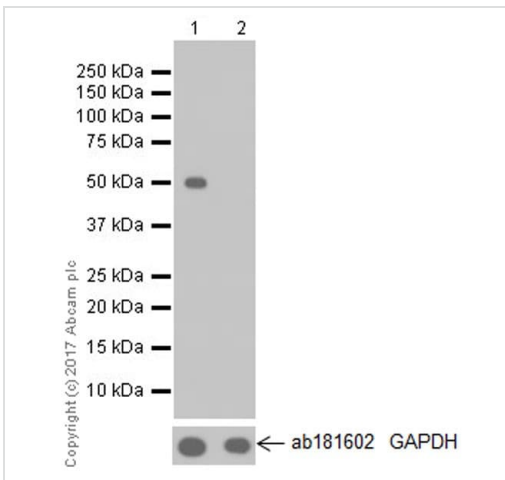
Flow Cytometry (Intracellular) - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

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.



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

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.



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

All lanes : Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191) at 1/5000 dilution

Lane 1 : SH-SY5Y (human neuroblastoma cell line from bone marrow) whole cell lysate

Lane 2 : DFNA5/GSDME knockout SH-SY5Y (human neuroblastoma cell line from bone marrow) 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.

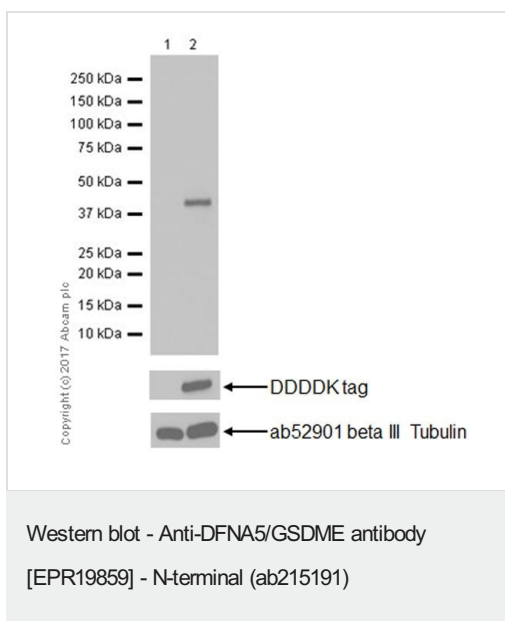
Predicted band size: 55 kDa

Observed band size: 55 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The cell lysates were kindly provided by our collaborator, Dr. Feng Shao, NIBS.



All lanes : Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191) at 1/10000 dilution

Lane 1 : HEK-293 (human epithelial cell line from embryonic kidney) transfected with a control vector containing DDDD tag, whole cell lysate

Lane 2 : HEK-293 (human epithelial cell line from embryonic kidney) transfected with DDDD tagged DFNA5/GSDME (N-terminal) expression vector, whole cell lysate

Lysates/proteins at 20 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: 55 kDa

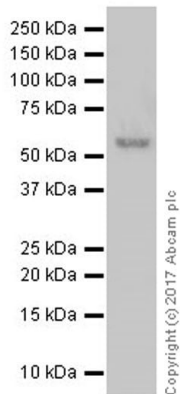
Observed band size: 37 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.

This antibody is specific to the N-terminus of DFNA5/GSDME.

The cell lysates were kindly provided by our collaborator, Dr. Feng Shao, NIBS.



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191) at 1/1000 dilution + Human fetal brain lysate at 10 µg

Secondary

VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/100000 dilution

Developed using the ECL technique.

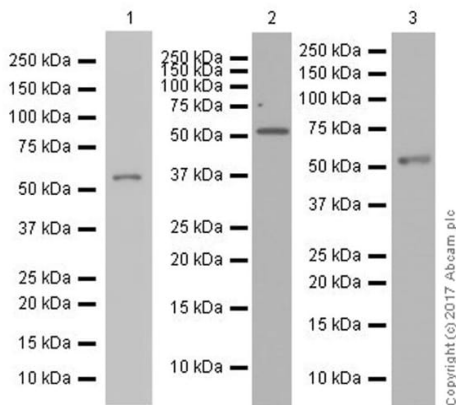
Predicted band size: 55 kDa

Observed band size: 55 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID: 28459430).



Western blot - Anti-DFNA5/GSDME antibody [EPR19859] - N-terminal (ab215191)

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

Lane 1 : EMT6 (mouse mammary carcinoma cell line) whole cell lysate

Lane 2 : Mouse brain lysate

Lane 3 : Rat brain 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: 55 kDa

Observed band size: 55 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID: 28459430).

The EMT6 cell lysate was kindly provided by our collaborator Dr. Feng Shao, NIBS.

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] - N-terminal (ab215191)

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