

Anti-GRP94 antibody [EPR22847-50] ab238126

KO 評価済 リコンビナント RabMAb

15 References 画像数 11

製品の概要

製品名	Anti-GRP94 antibody [EPR22847-50]
製品の詳細	Rabbit monoclonal [EPR22847-50] to GRP94
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human kidney and stomach tissue lysates; mouse brain and placenta tissue lysates; rat brain, placenta and stomach tissue lysates; HeLa, MCF7, HEK293T, MEF, PC-12, C6 and NIH/3T3 whole cell lysates. IHC-P: Human kidney tissue; mouse and rat colon tissue. ICC/IF: HeLa and NIH/3T3 cells. Flow Cyt (intra): HeLa cells. IP: HeLa whole cell lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR22847-50

アイソタイプIgG

アプリケーション

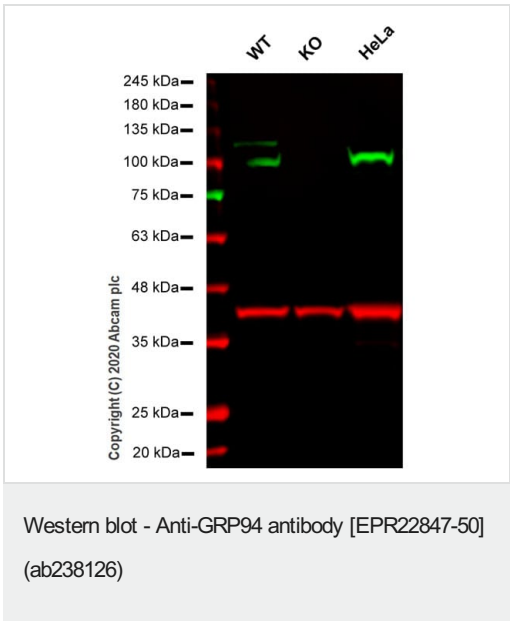
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab238126の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 94 kDa (predicted molecular weight: 94 kDa).
IHC-P		1/5000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/1000.
IP		1/30.
Flow Cyt (Intra)		1/600.

ターゲット情報

機能	Molecular chaperone that functions in the processing and transport of secreted proteins. Functions in endoplasmic reticulum associated degradation (ERAD). Has ATPase activity.
配列類似性	Belongs to the heat shock protein 90 family.
細胞内局在	Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

画像



All lanes : Anti-GRP94 antibody [EPR22847-50] (ab238126) at 1/1000 dilution

- Lane 1 :** Wild-type HEK293T cell lysate
- Lane 2 :** HSP90B1 knockout HEK293T cell lysate
- Lane 3 :** HeLa cell lysate

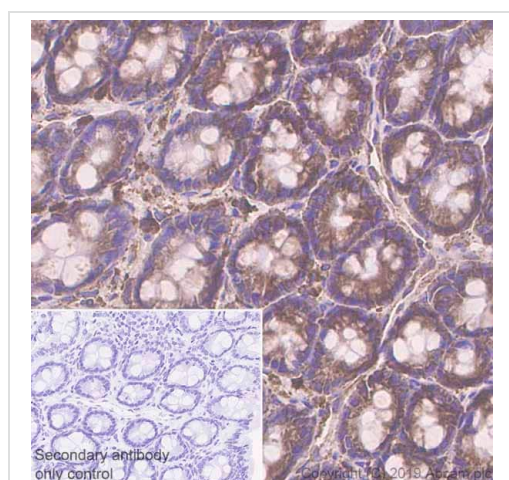
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 94 kDa
Observed band size: 94 kDa

Lanes 1-3: Merged signal (red and green). Green - ab238126 observed at 94 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab238126 Anti-GRP94 antibody [EPR22847-50] was shown to specifically react with GRP94 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266313** (knockout cell lysate **ab257254**) was used. Wild-type and GRP94 knockout samples were subjected to SDS-PAGE. ab238126 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [EPR22847-50] (ab238126)

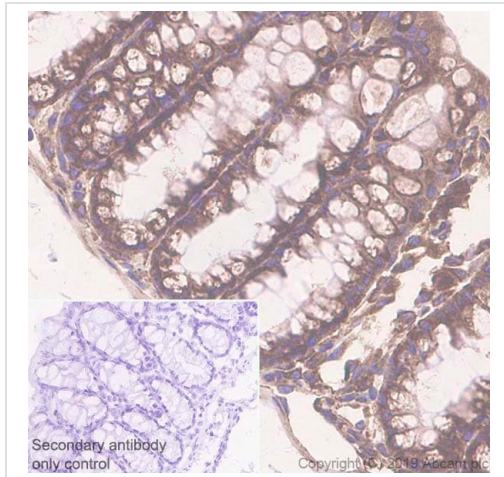
Immunohistochemical analysis of paraffin-embedded rat colon tissue labeling GRP94 with ab238126 at 1/5000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining on rat colon (PMID: 23572575) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with ab238126 for 15 mins at RT.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [EPR22847-50] (ab238126)

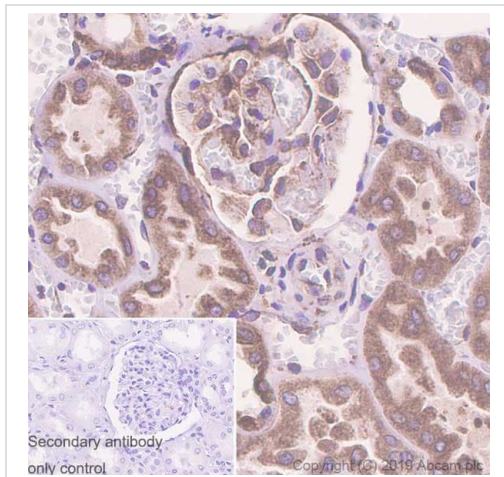
Immunohistochemical analysis of paraffin-embedded mouse colon tissue labeling GRP94 with ab238126 at 1/5000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Cytoplasmic staining on mouse colon (PMID: 23572575) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with ab238126 for 15 mins at RT.

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GRP94 antibody [EPR22847-50] (ab238126)

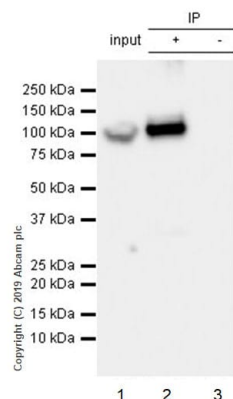
Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling GRP94 with ab238126 at 1/5000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Cytoplasmic staining on human kidney (PMID: 20520781) is observed. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

The section was incubated with ab238126 for 15 mins at RT.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunoprecipitation - Anti-GRP94 antibody
[EPR22847-50] (ab238126)

GRP94 was immunoprecipitated from 0.35 mg of HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab238126 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab238126 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used at 1/5000 dilution.

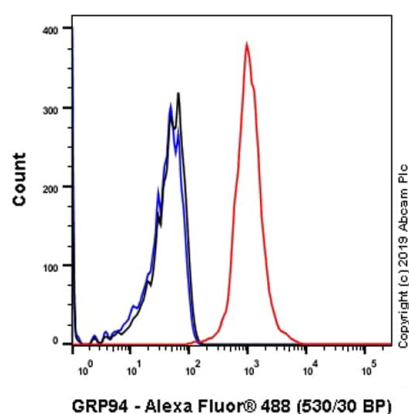
Lane 1: HeLa whole cell lysate 10 µg (Input).

Lane 2: ab238126 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab238126 in HeLa whole cell lysate.

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

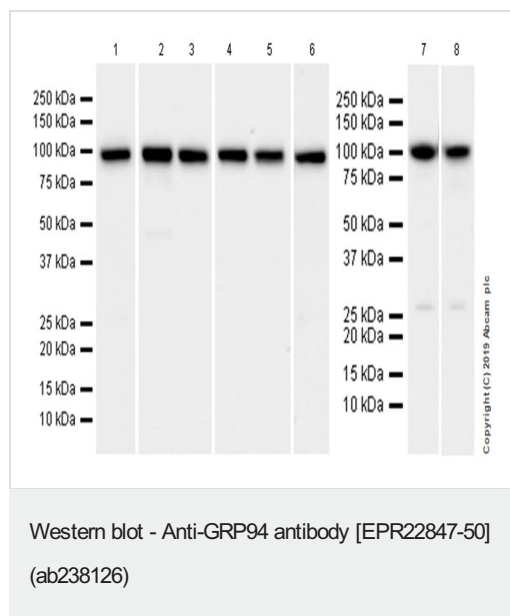
Exposure time: 3 seconds.



Flow Cytometry (Intracellular) - Anti-GRP94 antibody
[EPR22847-50] (ab238126)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling GRP94 with ab238126 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.



All lanes : Anti-GRP94 antibody [EPR22847-50] (ab238126) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate at 20 µg

Lane 2 : Mouse placenta tissue lysate at 20 µg

Lane 3 : Mouse stomach tissue lysate at 20 µg

Lane 4 : Rat brain tissue lysate at 20 µg

Lane 5 : Rat placenta tissue lysate at 20 µg

Lane 6 : Rat stomach tissue lysate at 20 µg

Lane 7 : C6 (rat glial tumor glial cell line) whole cell lysate at 20 µg

Lane 8 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate at 10 µg

Secondary

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

Predicted band size: 94 kDa

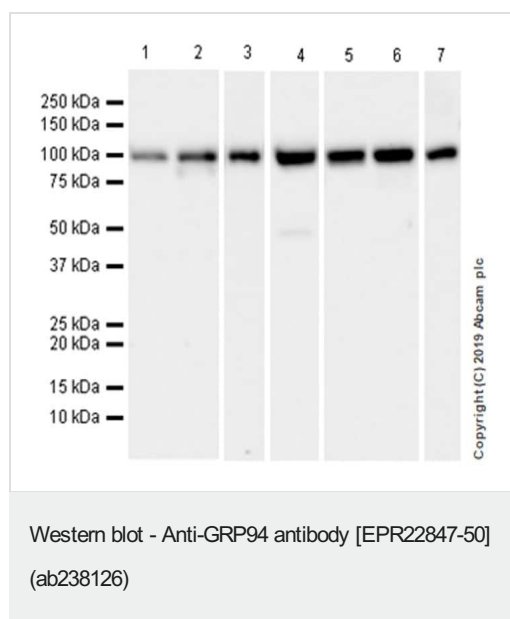
Observed band size: 94 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times.

Lane 1: 26 seconds; Lanes 2-5: 10 seconds; Lane 6: 92 seconds; Lanes 7-8: 6 seconds.

The molecular weight observed is consistent with what has been described in the literature (PMID: 26858453, 29949743).



All lanes : Anti-GRP94 antibody [EPR22847-50] (ab238126) at 1/1000 dilution

Lane 1 : Human brain tissue lysate at 20 µg

Lane 2 : Human kidney tissue lysate at 20 µg

Lane 3 : Human stomach tissue lysate at 20 µg

Lane 4 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 20 µg

Lane 5 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate at 20 µg

Lane 6 : MEF (Mouse embryonic fibroblast (immortalized) cell line) whole cell lysate at 20 µg

Lane 7 : PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate at 10 µg

Secondary

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

Predicted band size: 94 kDa

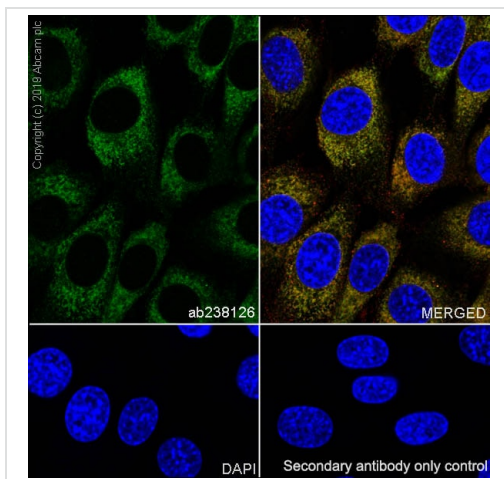
Observed band size: 94 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times.

Lanes 1 & 2: 10 seconds; Lane 3: 37 seconds; Lanes 4-6: 10 seconds; Lane 7: 26 seconds.

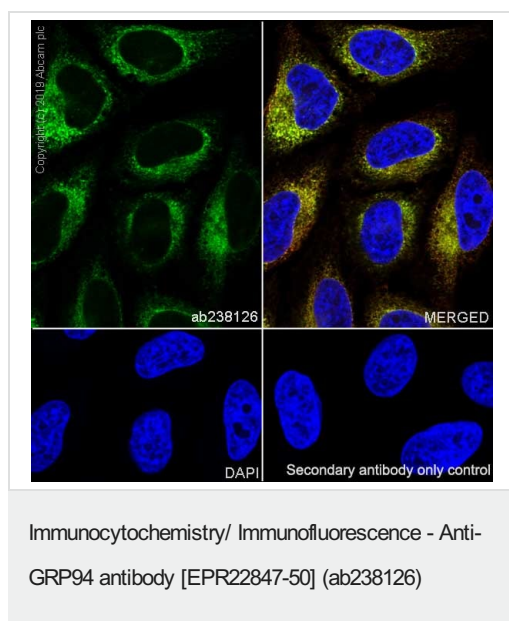
The molecular weight observed is consistent with what has been described in the literature (PMID: 26858453, 29949743).



Immunocytochemistry/ Immunofluorescence - Anti-GRP94 antibody [EPR22847-50] (ab238126)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (mouse embryo fibroblast cell line) cells labeling GRP94 with ab238126 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing endoplasmic reticulum staining in NIH/3T3 cell line. The nuclear counterstain is DAPI (blue). The endoplasmic reticulum is stained with Anti-KDEL antibody [10C3] (**ab12223**), followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) secondary antibody (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling GRP94 with ab238126 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing endoplasmic reticulum staining in HeLa cell line. The nuclear counter stain is DAPI (blue). The endoplasmic reticulum is stained with Anti-KDEL antibody [10C3] ([ab12223](#)), followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed ([ab150120](#)) secondary antibody (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

Why choose a recombinant antibody?

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

Anti-GRP94 antibody [EPR22847-50] (ab238126)

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