

Anti-GIV antibody [EPR18433] ab179481

リコンビナント **RabMAb**

8 References [画像数 10](#)

製品の概要

製品名	Anti-GIV antibody [EPR18433]
製品の詳細	Rabbit monoclonal [EPR18433] to GIV
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, ICC/IF, IP
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: HCT 116, HeLa, C6, RAW 264.7 and PC-12 whole cell lysates; Human fetal kidney, mouse brain and rat brain lysates. 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>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% 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	EPR18433
アイソタイプ	IgG

アプリケーション

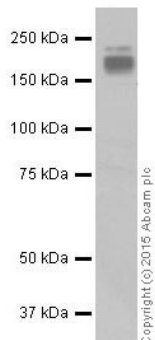
The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab179481の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/150.
WB		1/1000. Detects a band of approximately 208-216 kDa (predicted molecular weight: 216 kDa).
ICC/IF		1/2000.
IP		1/50.

ターゲット情報

機能	Plays a role as a key modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including correct neuron positioning, dendritic development and synapse formation. Enhances phosphoinositide 3-kinase (PI3K)-dependent phosphorylation and kinase activity of AKT1/PKB, but does not possess kinase activity itself. Phosphorylation of AKT1/PKB thereby induces the phosphorylation of downstream effectors GSK3 and FOXO1/FKHR, and regulates DNA replication and cell proliferation (By similarity). Essential for the integrity of the actin cytoskeleton and for cell migration. Required for formation of actin stress fibers and lamellipodia. May be involved in membrane sorting in the early endosome.
組織特異性	Expressed ubiquitously.
配列類似性	Belongs to the CCDC88 family.
翻訳後修飾	Phosphorylation is induced by epidermal growth factor (EGF) in a phosphoinositide 3-kinase (PI3K)-dependent manner. Phosphorylation by AKT1/PKB is necessary for the delocalization from the cell membrane and for cell migration.
細胞内局在	Membrane. Cell membrane. Cytoplasm > cytosol. Cytoplasmic vesicle. Cell projection > lamellipodium. Localizes to the cell membrane through interaction with phosphoinositides.

画像



Western blot - Anti-GIV antibody [EPR18433]
(ab179481)

Anti-GIV antibody [EPR18433] (ab179481) at 1/5000 dilution +
HeLa (Human epithelial cell line from cervix adenocarcinoma) whole
cell lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

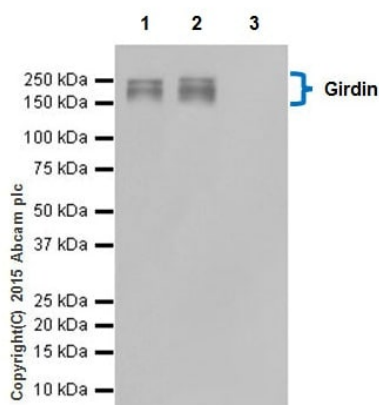
Predicted band size: 216 kDa

Observed band size: 208-216 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.

Multiple bands represent 5 isoforms ranging from 208 to 216 kDa
(PMID: 23195430; PMID: 22308453).



Immunoprecipitation - Anti-GIV antibody [EPR18433]
(ab179481)

GIV was immunoprecipitated from 1mg of HeLa (Human epithelial
cell line from cervix adenocarcinoma) whole cell lysate with
ab179481 at 1/50 dilution. Western blot was performed from the
immunoprecipitate using ab179481 at 1/1000 dilution. VeriBlot for
IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at
1/10000 dilution.

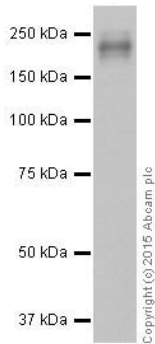
Lane 1: HeLa whole cell lysate 10µg (Input).

Lane 2: ab179481 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab179481 in
HeLa whole cell lysate.

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

Exposure time: 3 seconds.



Western blot - Anti-GIV antibody [EPR18433]
(ab179481)

Anti-GIV antibody [EPR18433] (ab179481) at 1/1000 dilution +
Human fetal kidney lysate at 10 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/10000 dilution

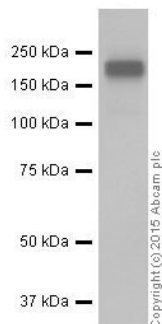
Predicted band size: 216 kDa

Observed band size: 208-216 kDa

Exposure time: 2 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Multiple bands represent 5 isoforms ranging from 208 to 216 kDa
(PMID: 23195430; PMID: 22308453).



Western blot - Anti-GIV antibody [EPR18433]
(ab179481)

Anti-GIV antibody [EPR18433] (ab179481) at 1/1000 dilution +
HCT 116 (Human colorectal carcinoma cell line) whole cell lysate at
20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

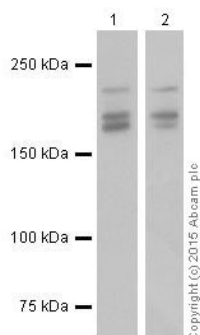
Predicted band size: 216 kDa

Observed band size: 208-216 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Multiple bands represent 5 isoforms ranging from 208 to 216 kDa
(PMID: 23195430; PMID: 22308453).



Western blot - Anti-GIV antibody [EPR18433]
(ab179481)

All lanes : Anti-GIV antibody [EPR18433] (ab179481) at 1/5000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Rat brain tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

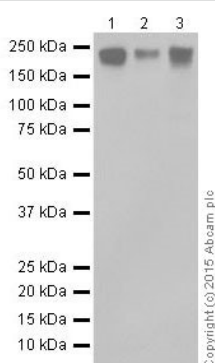
Predicted band size: 216 kDa

Observed band size: 208-216 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 30 seconds; Lane 2: 3 minutes.

Based on UniProt annotation, mouse GIV has 3 isoforms (215, 212, 205 kDa).



Western blot - Anti-GIV antibody [EPR18433]
(ab179481)

All lanes : Anti-GIV antibody [EPR18433] (ab179481) at 1/5000 dilution

Lane 1 : C6 (Rat glial tumor cell line) whole cell lysate

Lane 2 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma cell line) 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

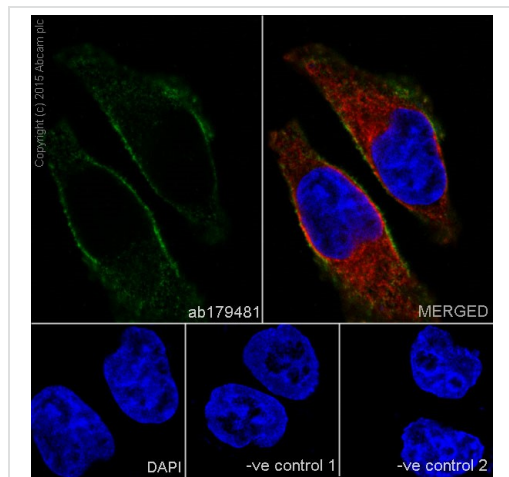
Predicted band size: 216 kDa

Observed band size: 208-216 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

Based on UniProt annotation, mouse GIV has 3 isoforms (215, 212, 205KD).



Immunocytochemistry/ Immunofluorescence - Anti-GIV antibody [EPR18433] (ab179481)

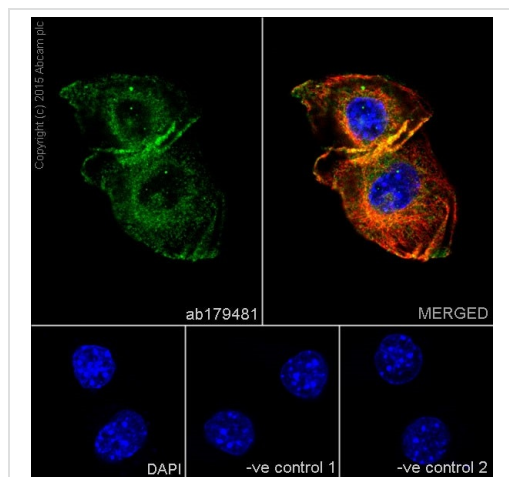
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling GIV with ab179481 at 1/2000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green).

Confocal image showing membranous staining on HeLa cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody-Loading Control ([ab7291](#)) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (AlexaFluor®594) preadsorbed ([ab150120](#)) at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: ab179481 at 1/2000 dilution followed by [ab150120](#) at 1/1000 dilution.

-ve control 2: [ab7291](#) at 1/1000 dilution followed by [ab150077](#) at 1/1000 dilution.



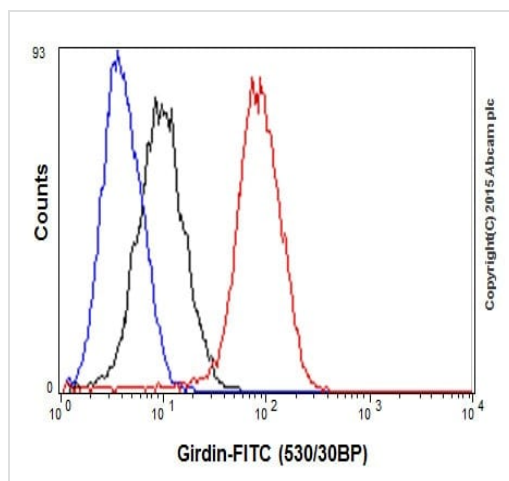
Immunocytochemistry/ Immunofluorescence - Anti-GIV antibody [EPR18433] (ab179481)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryonic fibroblast cell line) cells labeling GIV with ab179481 at 1/2000 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and membranous staining on NIH/3T3 cell line. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody-Loading Control ([ab7291](#)) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (AlexaFluor®594) preadsorbed ([ab150120](#)) at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: ab179481 at 1/2000 dilution followed by [ab150120](#) at 1/1000 dilution.





-ve control 2: [ab7291](#) at 1/1000 dilution followed by [ab150077](#) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-GIV antibody
[EPR18433] (ab179481)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling GIV with ab179481 at 1/150 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.

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-GIV antibody [EPR18433] (ab179481)

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