

Product datasheet

Anti-GIRK2 antibody [EPR22347-2] ab229913

Recombinant RabMAb

4 Images

Overview

Product name	Anti-GIRK2 antibody [EPR22347-2]
Description	Rabbit monoclonal [EPR22347-2] to GIRK2
Host species	Rabbit
Tested applications	Suitable for: IP, WB Unsuitable for: IHC-Fr or IHC-P
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Recombinant fragment within Mouse GIRK2 aa 350 to the C-terminus. The exact sequence is proprietary. Database link: P48542
Positive control	WB: Mouse brain and liver tissue lysate; rat brain and liver tissue lysate IP: Mouse hippocampus lysate; rat brain lysate
General notes	<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> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been "predicted to work</p>

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22347-2
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab229913** in the following tested applications.

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

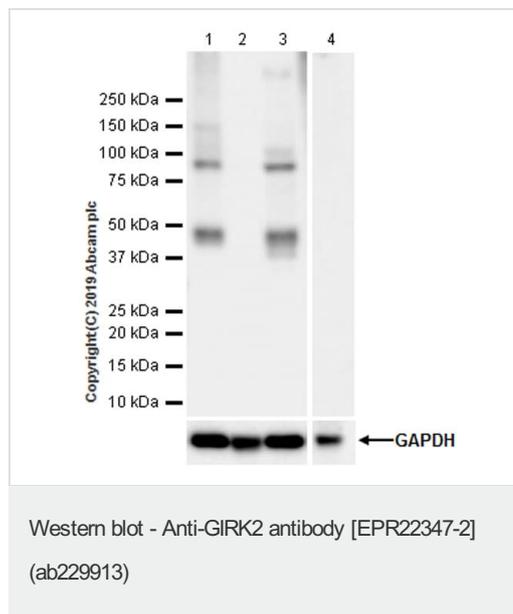
Application	Abreviews	Notes
IP		1/30.
WB		1/1000. Detects a band of approximately 48 kDa (predicted molecular weight: 48 kDa).

Application notes Is unsuitable for IHC-Fr or IHC-P.

Target

Function	This potassium channel may be involved in the regulation of insulin secretion by glucose and/or neurotransmitters acting through G-protein-coupled receptors. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium.
Tissue specificity	Most abundant in cerebellum, and to a lesser degree in islets and exocrine pancreas.
Involvement in disease	Keppen-Lubinsky syndrome
Sequence similarities	Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ6 subfamily.

Images



All lanes : Anti-GIRK2 antibody [EPR22347-2] (ab229913) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse liver tissue lysate

Lane 3 : Rat brain tissue lysate

Lane 4 : Rat liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 48 kDa

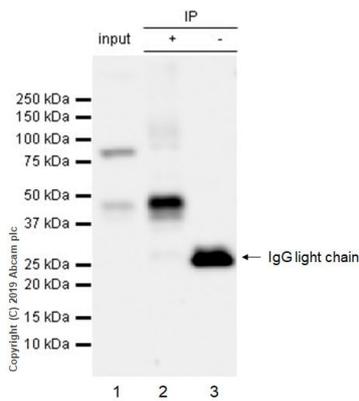
Observed band size: 48 kDa

Exposure time: 10 seconds

Blocking/Diluting buffer and concentration: 5% NFDN/TBST

Negative control: Liver tissue (PMID: 8929423)

This antibody reacts with a undetermined protein near 90KD.



Immunoprecipitation - Anti-GIRK2 antibody
[EPR22347-2] (ab229913)

GIRK2 was immunoprecipitated from 0.35mg of rat brain whole cell lysate with ab229913 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab229913 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used as secondary antibody at 1/1000 dilution.

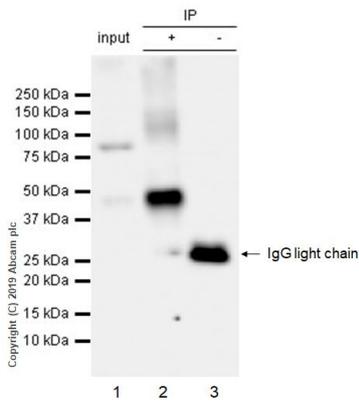
Lane 1: rat brain lysate (10µg) (Input).

Lane 2: ab229913 IP in rat brain lysate (Input).

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab229913 in rat brain lysate

Blocking and dilution buffer and concentration: 5% NFD/MTBST

Exposure time: 7 seconds



Immunoprecipitation - Anti-GIRK2 antibody
[EPR22347-2] (ab229913)

GIRK2 was immunoprecipitated from 0.35mg of mouse hippocampus whole cell lysate with ab229913 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab229913 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used as secondary antibody at 1/1000 dilution.

Lane 1: Mouse hippocampus lysate (10µg) (Input).

Lane 2: ab229913 IP in mouse hippocampus lysate (Input).

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab229913 in Mouse hippocampus lysate.

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 7 seconds.

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-GIRK2 antibody [EPR22347-2] (ab229913)

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
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- We provide support in Chinese, English, French, German, Japanese and Spanish
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