

## Product datasheet

# Anti-GIRK2 antibody [EPR22347-2] ab229913

Recombinant RabMAb

4 Images

### Overview

<b>Product name</b>	Anti-GIRK2 antibody [EPR22347-2]
<b>Description</b>	Rabbit monoclonal [EPR22347-2] to GIRK2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB <b>Unsuitable for:</b> IHC-Fr or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Mouse brain and liver tissue lysate; rat brain and liver tissue lysate IP: Mouse hippocampus lysate; rat brain lysate
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22347-2

Isotype

IgG

## Applications

### The Abpromise guarantee

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

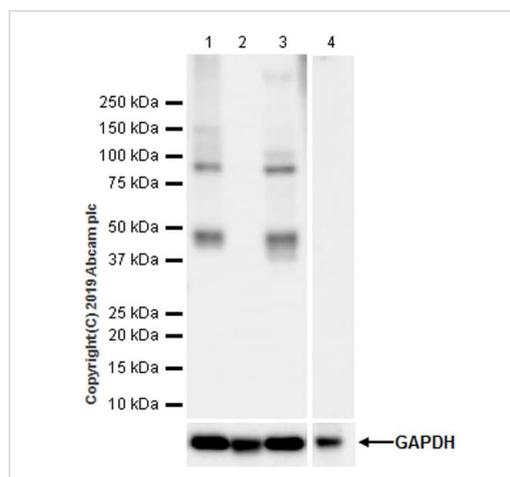
### Sequence similarities

Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ6 subfamily.

### Cellular localization

Membrane.

## Images



Western blot - Anti-GIRK2 antibody [EPR22347-2] (ab229913)

**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

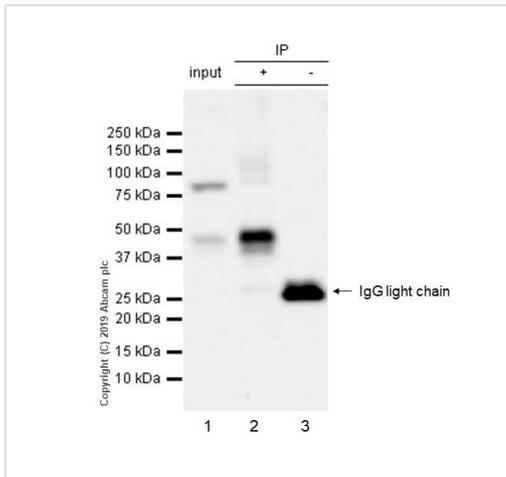
**Observed band size:** 48 kDa

**Exposure time:** 10 seconds

Blocking/Diluting buffer and concentration: 5% NFDm/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.

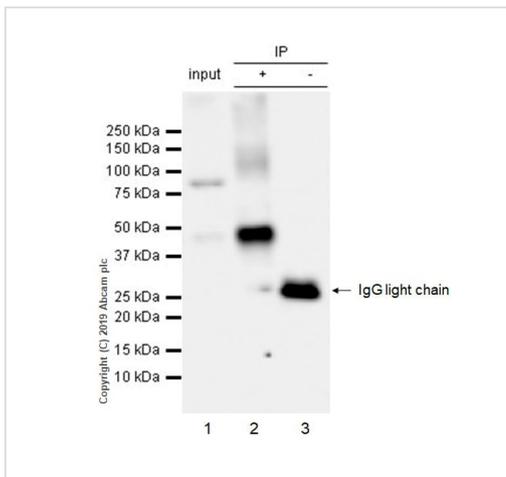
**Lane 1:** rat brain lysate (10µg) (Input).

**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% NFDm/TBST

Exposure time: 7 seconds



Immunoprecipitation - Anti-GIRK2 antibody  
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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% NFDm/TBST.

Exposure time: 7 seconds.

### 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-GIRK2 antibody [EPR22347-2] (ab229913)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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