

Datasheet for ABIN7043487

**anti-KCNJ6 antibody (C-Term, Intracellular)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	25 µL
Target:	KCNJ6
Binding Specificity:	AA 374-414, C-Term, Intracellular
Reactivity:	Mouse, Rat
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This KCNJ6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Immunogen: GST fusion protein Immunogen Sequence: GST fusion protein with the sequence ELANRAEVPLSWSVS SKLNQHAEELETEEEKNPEELTERNG, corresponding to residues 374-414 of mouse Kir3.2 (GIRK2)
Isotype:	IgG
Characteristics:	Guinea pig Anti-GIRK2 (Kir3.2) Antibody (#) raised in guinea pigs is a highly specific antibody directed against an epitope of the mouse protein. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize GIRK2 from mouse, rat, and human samples. The antigen used to immunize guinea pigs is the same as Anti-GIRK2 (Kir3.2) Antibody (ABIN7043488, ABIN7044906 and ABIN7044907)) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.

## Product Details

**Purification:** The serum was depleted of anti-GST antibodies by affinity chromatography on immobilized GST and then the IgG fraction was purified on immobilized antigen.

## Target Details

**Target:** KCNJ6

**Alternative Name:** GIRK2 (Kir3.2) ([KCNJ6 Products](#))

**Background:** Alternative names: GIRK2, G protein-activated inward rectifier potassium channel 2, Kcnj6

**Gene ID:** 16522

**NCBI Accession:** [NM\\_002240](#)

**UniProt:** [P48542](#)

## Application Details

**Application Notes:** Optimal working dilution should be determined by the investigator.

**Restrictions:** For Research Use only

## Handling

**Format:** Lyophilized

**Reconstitution:** 25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.

**Concentration:** 0.8 mg/mL

**Buffer:** Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

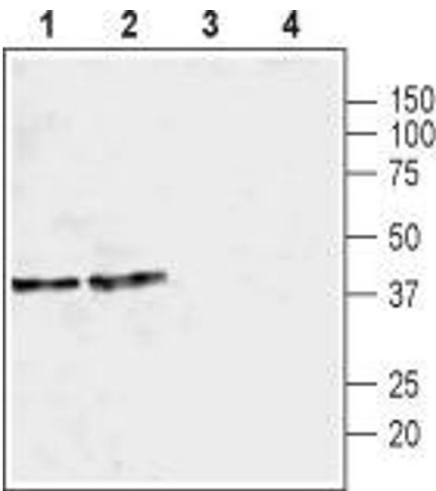
**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

**Storage:** RT, 4 °C, -20 °C

**Storage Comment:** Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.

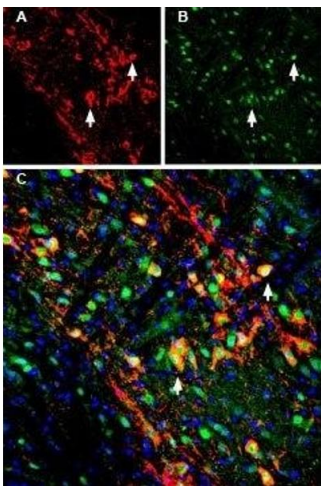
Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



### Western Blotting

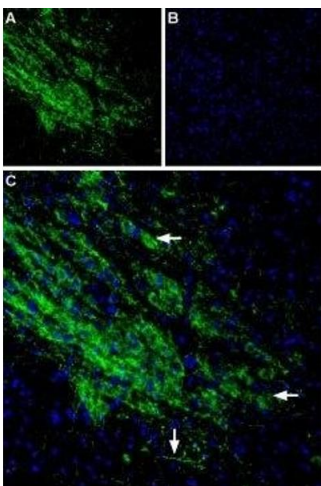
**Image 1.** Western blot analysis of rat brain membrane (lanes 1 and 3) and mouse brain membrane (lanes 2 and 4):

- 1,2. Guinea pig Anti-GIRK2 (Kir3.2) Antibody (ABIN7043487, ABIN7045373 and ABIN7045374), (1:400).
- 3,4. Guinea pig Anti-GIRK2 (Kir3.2) Antibody, preincubated with GIRK2/Kir3.2 Blocking Peptide (#BLP-PC006). Following a screen of several secondary antibodies, the following were used for western blot analysis: Anti-Guinea pig IgG (Sigma #A7289 or Jackson ImmunoResearch #106-035-006).



### Immunohistochemistry

**Image 2.** Multiplex staining of GIRK2 (Kir3.2) and LRRK2 in mouse substantia nigra pars compacta - Immunohistochemical staining of immersion-fixed, free floating mouse brain frozen sections using Guinea pig Anti-GIRK2 (Kir3.2) Antibody (ABIN7043487, ABIN7045373 and ABIN7045374), (1:200) and rabbit Anti-LRRK2 Antibody (ABIN7044716 and ABIN7044717), (1:200). A. Kir3.2 staining (red) appears in profiles of dopaminergic neurons (arrows). B. LRRK2 staining (green) is detected in several cell bodies in the SNC. C. Merge of the two images demonstrates colocalization in several neurons (arrows). Cell nuclei are stained with DAPI (blue).



### Immunohistochemistry

**Image 3.** Expression of GIRK2 (Kir3.2) in mouse brain - Immunohistochemical staining of mouse substantia nigra pars compacta (SNC) using Guinea pig Anti-GIRK2 (Kir3.2) Antibody (ABIN7043487, ABIN7045373 and ABIN7045374), (1:400). A. GIRK2 staining (green) appears in soma (horizontal arrows) and dendrites of dopaminergic neurons (vertical arrow). B. Nuclei staining using DAPI as the counterstain (blue). C. Merged image of panels A and B.

## Images

---

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7043487.