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Datasheet for ABIN7043488

## anti-KCNJ6 antibody (C-Term, Intracellular)

### 3 Images

#### Overview

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

#### Product Details

Immunogen:	Immunogen: GST fusion protein Immunogen Sequence: GST fusion protein with the sequence ELANRAEVPLSWSVS SKLNQHAELETEEEEEKNPEELTERNG, corresponding to residues 374-414 of mouse Kir3.2
Isotype:	IgG
Characteristics:	Anti-GIRK2 (Kir3.2) Antibody (ABIN7043488, ABIN7044906 and ABIN7044907)) is a highly specific antibody directed against an epitope of the mouse protein. The antibody can be used in western blot, immunoprecipitation, immunocytochemistry, and immunohistochemistry applications. It has been designed to recognize Kir3.2 from rat, mouse, and human samples.
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

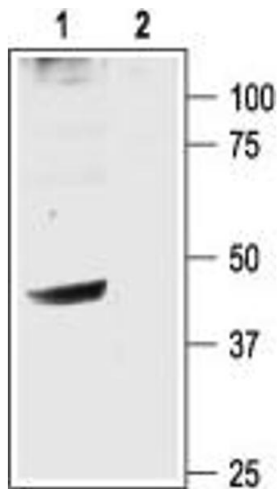
Target:	KCNJ6
Alternative Name:	GIRK2 (Kir3.2) ( <a href="#">KCNJ6 Products</a> )
Background:	Alternative names: GIRK2, G protein-activated inward rectifier potassium channel 2, Kcnj6
Gene ID:	16522
NCBI Accession:	<a href="#">NM_002240</a>
UniProt:	<a href="#">P48542</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

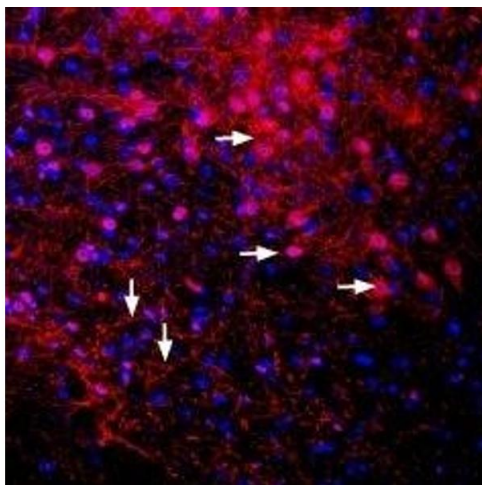
## Handling

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).



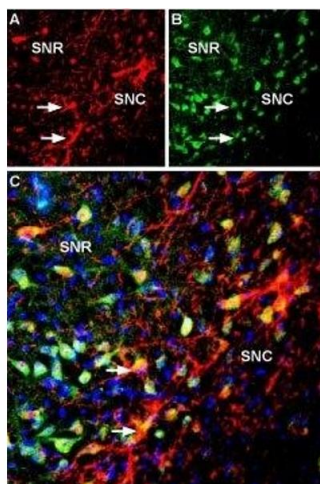
### Western Blotting

**Image 1.** Western blot analysis of rat brain membranes: - 1. Anti-GIRK2 (Kir3.2) Antibody (ABIN7043488, ABIN7044906 and ABIN7044907), (1:200). 2. Anti-GIRK2 (Kir3.2) Antibody, preincubated with GIRK2 (Kir3.2) Blocking peptide (#BLP-PC006).



### Immunohistochemistry

**Image 2.** Expression of Kir3.2 in mouse brain - Immunohistochemical staining of perfusion-fixed frozen mouse substantia nigra pars compacta sections using Anti-GIRK2 (Kir3.2) Antibody (ABIN7043488, ABIN7044906 and ABIN7044907), (1:400). GIRK2 staining (red) appears in cells and processes along the pars compacta of the mouse substantia nigra (horizontal arrows) and in the pars reticulata (vertical arrows). Cell nuclei are stained with DAPI (blue).



### Immunohistochemistry

**Image 3.** Multiplex staining of Kir3.2 and KCNK2 in rat substantia nigra - Immunohistochemical staining of immersion-fixed, free floating rat brain frozen sections using rabbit Anti-GIRK2 (Kir3.2) Antibody (ABIN7043488, ABIN7044906 and ABIN7044907), (1:400) and Guinea pig Anti-KCNK2 (TREK-1) Antibody (ABIN7043451, ABIN7045404 and ABIN7045405), (1:120). A. Kir3.2 staining (red) appears in cells of the substantia nigra pars compacta (SNC, arrows). B. KCNK2 (green) appears in both compacta (SNC) and reticulata (SNR) portions of the substantia nigra. C. Merge of the two images reveals co-localization in some cells (arrows), mainly in the SNC region. Cell nuclei are stained with DAPI (blue).