

Datasheet for ABIN7043481

anti-KCNJ2 antibody (Extracellular Loop)

4 Images

[Go to Product page](#)

Overview

Quantity:	25 µL
Target:	KCNJ2
Binding Specificity:	AA 112-125, Extracellular Loop
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNJ2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)DLDASKESKA(S)VSE, corresponding to amino acid residues 112 - 125 of rat Kir2.1
Isotype:	IgG
Characteristics:	Anti-Kir2.1/KCNJ2 (extracellular) Antibody (ABIN7043481, ABIN7045056 and ABIN7045057)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, live cell imaging and live cell flow cytometry. It has been designed to recognize Kir2.1 from human, rat, and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

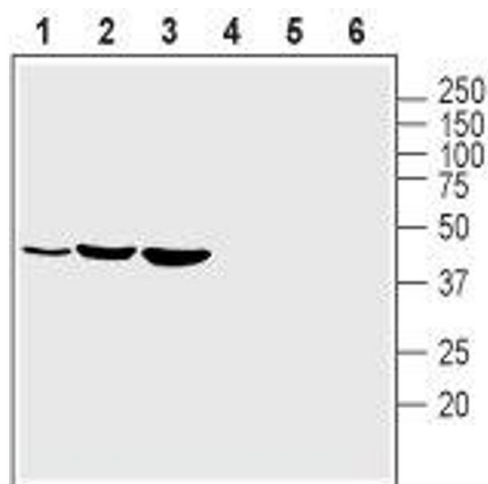
Target:	KCNJ2
Alternative Name:	Kir2.1/KCNJ2 (KCNJ2 Products)
Background:	Alternative names: Kir2.1 (KCNJ2), Inward rectifier potassium channel 2, IRK1, HIRK1, LQT7, SQT3
Gene ID:	29712
NCBI Accession:	NM_000891
UniProt:	Q64273

Application Details

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

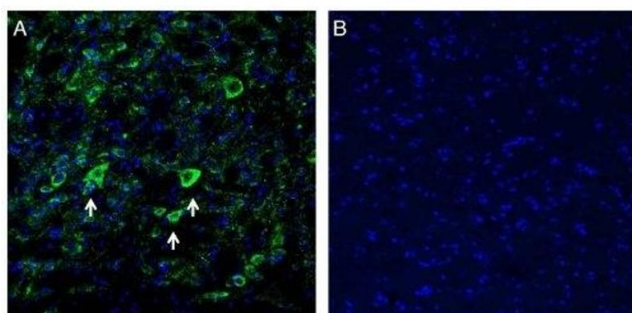
Handling

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:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>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).</p>



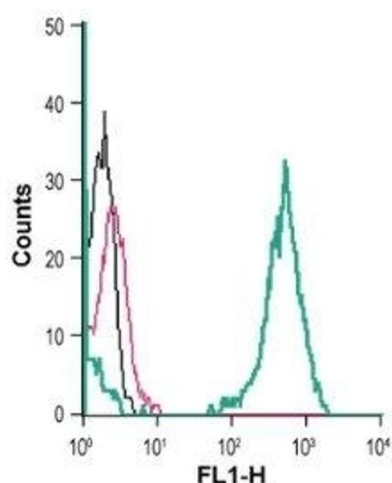
Western Blotting

Image 1. Western blot analysis of rat brain lysate (lanes 1 and 4), rat heart lysate (lanes 2 and 5) and mouse heart lysate (lanes 3 and 6): - 1-3. Anti-Kir2.1/KCNJ2 (extracellular) Antibody (ABIN7043481, ABIN7045056 and ABIN7045057), (1:200). 4-6. Anti-Kir2.1/KCNJ2 (extracellular) Antibody, preincubated with Kir2.1/KCNJ2 (extracellular) Blocking Peptide (#BLP-PC159).



Immunohistochemistry

Image 2. Expression of Kir2.1 in mouse midbrain. - Immunohistochemical staining of perfusion-fixed frozen mouse brain sections with Anti-Kir2.1/KCNJ2 (extracellular) Antibody (ABIN7043481, ABIN7045056 and ABIN7045057), (1:200), followed by goat anti-rabbit-AlexaFluor-488. A. Staining in the dorsal midbrain region showed immunoreactivity (green) in multipolar neurons (vertical arrow). B. Pre-incubation of the antibody with Kir2.1/KCNJ2 (extracellular) Blocking Peptide (BLP-PC159), suppressed staining. Cell nuclei are stained with DAPI (blue).



Flow Cytometry

Image 3. Cell surface detection of Kir2.1 in live intact human THP-1 monocytic leukemia cells: (black line) Cells. (red line) Cells + goat-anti-rabbit-Alexa-488. (green line) Cells + Anti-Kir2.1/KCNJ2 (extracellular) Antibody (ABIN7043481, ABIN7045056 and ABIN7045057), 2.5 µg + goat-anti-rabbit-AlexaFluor-488 secondary antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7043481.