

Datasheet for ABIN7043485
anti-KCNJ4 antibody (Intracellular)



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1 Image

Overview

Quantity:	50 µL
Target:	KCNJ4
Binding Specificity:	AA 418-437, Intracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNJ4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochromatography (IC)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to Kir2.3 (KCNJ4) Channel
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)EFGS HLDLE RMQAA TLPLD N, corresponding to amino acid residues 418-437 of rat Kir2.3
Isotype:	IgG
Specificity:	Intracellular, C-terminal domain
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	guinea pig - 19,Xenopus - 18,Mouse - identical, hamster,20 amino acid residues identical,human
Characteristics:	Anti-Kir2.3 (KCNJ4) Antibody is directed against an epitope of the rat Kir2.3 channel. Anti-Kir2.3

Product Details

(KCNJ4) Antibody (ABIN7043485 and ABIN7044942) can be used in western blot, immunocytochemistry, and immunohistochemistry applications. It has been designed to recognize Kir2.3 from human, rat, and mouse samples.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: KCNJ4

Alternative Name: KCNJ4 ([KCNJ4 Products](#))

Background: Inward rectifier potassium channel 4, BIR11, IRK3, HIRK2, HRK1, Kir2.3 is a member of the family of inward rectifying K⁺ channels. The family includes 15 members that are structurally and functionally different from the voltage-dependent K⁺ channels. The family's topology consists of two transmembrane domains that flank a single and highly conserved pore region with intracellular N- and C-termini. As is the case for the voltage-dependent K⁺ channels the functional unit for the Kir channels is composed of four subunit that can assembly as either homo or heterotetramers. Kir channels are characterized by a K⁺ efflux that is limited by depolarizing membrane potentials thus making them essential for controlling resting membrane potential and K⁺ homeostasis. Kir2.3 is a member of the Kir2.x subfamily that includes four members (Kir2.1- Kir2.4) that are characterized by strong inward rectification and high constitutive activity. Kir2.3 is expressed in a variety of tissues including heart and brain. 2In the heart, Kir2.3 forms heteromers with Kir2.1 and underlay the IK1 current (at least in some species) that is responsible for setting the resting membrane potential, preventing membrane hyperpolarization due to Na⁺ pump activity, influencing propagation velocity, altering the electrical space constant, and promoting late phase repolarization.1,2

Alternative names: Kir2.3 (KCNJ4), Inward rectifier potassium channel 4, BIR11, IRK3, HIRK2, HRK1

Gene ID: 116649

NCBI Accession: [NM_004981](#)

UniProt: [P52190](#)

Application Details

Application Notes: Antigen preadsorption control: 1 µg peptide per 1 µg antibody
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A

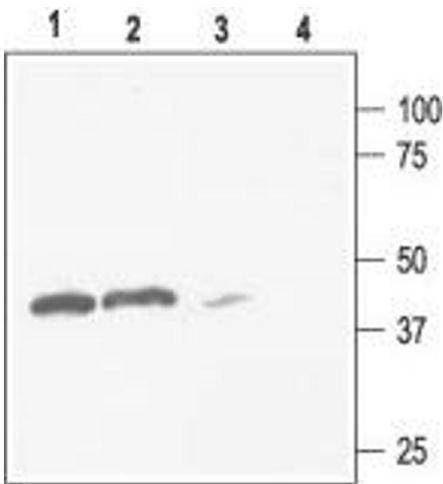
Application Details

	Application Dilutions Western blot wb: 1:200
Comment:	Cited Application: IP IHC Negative Control: (ABIN7236399) Blocking Peptide: (ABIN7236399)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	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).

Images



Western Blotting

Image 1. Western blot analysis of rat kidney (lanes 1 and 3) and brain (lanes 2 and 4) membranes: - 1,2. Anti-Kir2.3 (KCNJ4) Antibody (ABIN7043485 and ABIN7044942), (1:200)3,4. Anti-Kir2.3 (KCNJ4) Antibody, preincubated with Kir2.3/KCNJ4 Blocking Peptide (#BLP-PC032).