

Datasheet for ABIN7043476

anti-KCNJ13 antibody (Extracellular) (Atto 488)

1 Image



Go to Product page

()	ve	rvi	6	W
\sim	v C	1 V I	\sim	v v

Quantity:	50 μL	
Target:	KCNJ13	
Binding Specificity:	AA 80-94, Extracellular	
Reactivity:	Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This KCNJ13 antibody is conjugated to Atto 488	
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF)	
Product Details		
Purpose:	A Rabbit Polyclonal Antibody to Kir7.1 Channel Conjugated to the Fluorescent Dye ATTO-488	
Purpose: Immunogen:	A Rabbit Polyclonal Antibody to Kir7.1 Channel Conjugated to the Fluorescent Dye ATTO-488 Immunogen: Synthetic peptide Immunogen Sequence: (C)EMNGDLEIDHDVPPE, corresponding to amino acid residues 80-94 of rat KCNJ13	
·	Immunogen: Synthetic peptide Immunogen Sequence: (C)EMNGDLEIDHDVPPE, corresponding to amino acid residues 80-94	
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)EMNGDLEIDHDVPPE, corresponding to amino acid residues 80-94 of rat KCNJ13	
Immunogen: Isotype:	Immunogen: Synthetic peptide Immunogen Sequence: (C)EMNGDLEIDHDVPPE, corresponding to amino acid residues 80-94 of rat KCNJ13 IgG	
Immunogen: Isotype: Specificity:	Immunogen: Synthetic peptide Immunogen Sequence: (C)EMNGDLEIDHDVPPE, corresponding to amino acid residues 80-94 of rat KCNJ13 IgG Extracellular loop	

be used in western blot, immunohistochemistry and indirect flow cytometry applications. It has been designed to recognize Kir7.1 from rat, mouse and human samples. \nAnti-Kir7.1 (extracellular)-ATTO Fluor-488 Antibody (ABIN7043476) is directly labeled with an fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The label is analogous to the well known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC. Anti-Kir7.1 (extracellular)-ATTO Fluor-488 Antibody is especially suited for experiments requiring simultaneous labeling of different markers.

Purification:

Affinity purified on immobilized antigen.

Target Details	
Target:	KCNJ13
Alternative Name:	KCNJ13 (KCNJ13 Products)
Background:	Inward rectifier potassium channel 13, KCNJ13, Kir7.1 (KCNJ13) is a member of the inward rectifying K+ channel family. The family includes 15 members that are structurally and
	functionally different from the voltage-dependent K+ channels. The family's protein 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 subunits that can assemble as either
	homo- or heteromers.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+ homeostasis1.Kir7.1, an inwardly rectifying K+ channel with
	unusual permeation properties is localized in epithelial cells of the thyroid, small intestine,
	kidney tubules, choroid plexus and in retinal pigment epithelium (RPE), where it forms a major
	component of the apical membrane K+ conductance2.A mutation in the gene encoding the
	channel was found to cause snowflake vitreoretinal degeneration (SVD) which is a
	developmental and progressive hereditary eye disorder that affects multiple tissues within the
	eye3.
	Alternative names: Kir7.1, Inward rectifier potassium channel 13, KCNJ13
Gene ID:	94341
NCBI Accession:	NM_002242
UniProt:	070617

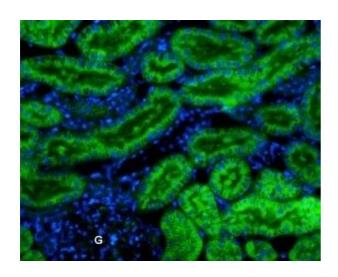
Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:50 Application Dilutions Western blot wb: N/A	
Comment:	Cited Application: IHC Negative Control: (ABIN7582041) Blocking Peptide: (ABIN7236376)	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Recosntitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.	
Concentration:	1 mg/mL	
Buffer:	PBS pH 7.4, 1 % BSA with 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:	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, protected from the

multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5

min).



Immunohistochemistry

Image 1. Expression of Kir7.1 in rat kidney - Immunohistochemical staining of paraffin-embedded rat kidney sections using Anti-Kir7.1 (extracellular)-ATTO Fluor-488 Antibody (ABIN7043476), (1:50). Kir7.1 staining (green) is present in convoluted tubules in the renal cortex. Glomeruli (G) are negative. Cell nuclei were visualized with Hoechst 33342 (blue).