

Product datasheet

Recombinant Human Kir4.1 protein ab114456

1 Image

Overview

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<b>Product name</b>	Recombinant Human Kir4.1 protein
<b>Protein length</b>	Protein fragment

Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ

Amino Acid Sequence

<b>Accession</b>	<a href="#">P78508</a>
<b>Species</b>	Human
<b>Sequence</b>	DFELVLILSGTVESTSATCQVRTSYLPEEILWGYEFTPAILLSASGKYIA DFSLFDQVVKVASPSGLRDSTVRYGDPEKLEESLREQAEKEGSALSVR ISNV
<b>Molecular weight</b>	37 kDa including tags
<b>Amino acids</b>	276 to 379

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab114456** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot SDS-PAGE ELISA
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml. ab114456 is best used within three months from the date of receipt.

Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
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pH: 8.00  
Constituents: 0.79% Tris HCl, 0.3% Glutathione

## General Info

### Function

May be responsible for potassium buffering action of glial cells in the brain. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. Can be blocked by extracellular barium and cesium (By similarity). In the kidney, together with KCNJ16, mediates basolateral K(+) recycling in distal tubules; this process is critical for Na(+) reabsorption at the tubules.

### Tissue specificity

Expressed in kidney (at protein level).

### Involvement in disease

Seizures, sensorineural deafness, ataxia, mental retardation, and electrolyte imbalance

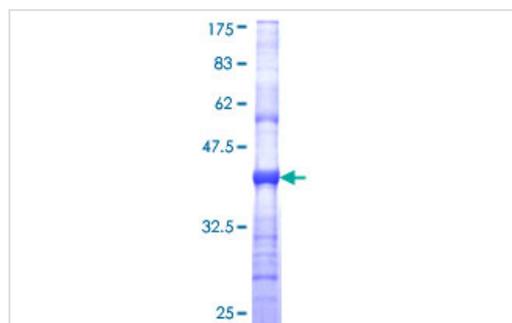
### Sequence similarities

Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ10 subfamily.

### Cellular localization

Membrane. Basolateral cell membrane. In kidney distal convoluted tubules, located in the basolateral membrane where it colocalizes with KCNJ16.

## Images



ab114456 analysed on a 12.5% SDS-PAGE  
stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Kir4.1 protein  
(ab114456)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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