

Product datasheet

Recombinant Human Kir4.1 protein ab114456

1 Image

Overview

Product name Recombinant Human Kir4.1 protein
Protein length Protein fragment

Description

Nature Recombinant
Source Wheat germ

Amino Acid Sequence

Accession [P78508](#)
Species Human
Sequence DFELVLILSGTVESTSATCQVRTSYLPEEILWGYEFTPAILLSASGKYIA
 DFSLFDQVVKVASPSGLRDSTVRYGDPEKLEESLREQAEKEGSALSVR
 ISNV
Molecular weight 37 kDa including tags
Amino acids 276 to 379

Specifications

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.

Applications Western blot
 SDS-PAGE
 ELISA
Form Liquid
Additional notes 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

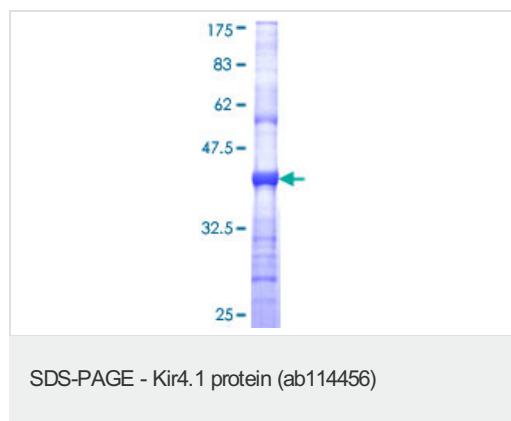
Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

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.

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