

[Go to Product page](#)

Datasheet for ABIN571906
anti-KCNJ13 antibody (AA 200-250)

Overview

Quantity:	500 µg
Target:	KCNJ13
Binding Specificity:	AA 200-250
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNJ13 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthetic peptide from AA 200-250 of human KCNJ13 conjugated to an immunogenic carrier protein was used as the antigen. The peptide shares 95% identity with rat and mouse sequences.
Isotype:	IgG
Specificity:	Specific for KCNJ13.
Cross-Reactivity:	Human
Cross-Reactivity (Details):	Other species not yet tested but expected to work in rat and mouse.
Purification:	IgG

Target Details

Target:	KCNJ13
Alternative Name:	KCNJ13 (KCNJ13 Products)
Background:	<p>FUNCTION: 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. KCNJ13 has a very low single channel conductance, low sensitivity to block by external barium and cesium, and no dependence of its inward rectification properties on the internal blocking particle magnesium.</p> <p>Tissue specificity: Predominantly expressed in small intestine. Expression is also detected in stomach, kidney, and all central nervous system regions tested with the exception of spinal cord. Subcellular location: Membrane, Multi-pass membrane protein. Involvement in disease: Defects in KCNJ13 are the cause of snowflake vitreoretinal degeneration (SVD). SVD is a developmental and progressive hereditary eye disorder that affects multiple tissues within the eye. Diagnostic features of SVD include fibrillar degeneration of the vitreous humor, early-onset cataract, minute crystalline deposits in the neurosensory retina, and retinal detachment.,Inward Rectifier,Inward rectifier potassium channel 13, Potassium channel, inwardly rectifying subfamily J member 13, Inward rectifier K(+) channel Kir7.1</p>
UniProt:	O60928

Application Details

Application Notes:	IHC, WB. A concentration of 10-50 µg/ml is recommended. The optimal concentration should be determined by the end user. Not yet tested in other applications.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 100 µL of sterile water. Centrifuge to remove any insoluble material.
Handling Advice:	Avoid freeze and thaw cycles.
Storage:	4 °C/-20 °C
Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8°C for a shorter term. When reconstituting, glycerol (1:1) may be added for an

Handling

additional stability. Avoid freeze and thaw cycles.

Expiry Date: 12 months