

Anti-KCNA5 / Kv1.5 Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS17748

Product Information

Application	WB, IHC-P
Primary Accession	P22460
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67228
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	3741
Alias Symbol	KCNA5
Other Names	KCNA5, Cardiac potassium channel, HCK1, HPCN1, HuK6, HuKVI, RMK2, PCN1, RK3, ATFB7, KV1.5, Potassium channel 1
Target/Specificity	Human 67 kD protein
Reconstitution & Storage	Antiserum
Precautions	Anti-KCNA5 / Kv1.5 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KCNA5
Function	Voltage-gated potassium channel that mediates transmembrane potassium transport in excitable membranes. Forms tetrameric potassium- selective channels through which potassium ions pass in accordance with their electrochemical gradient. The channel alternates between opened and closed conformations in response to the voltage difference across the membrane. Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNA1, KCNA2, KCNA4, KCNA5, and possibly other family members as well; channel properties depend on the type of alpha subunits that are part of the channel (PubMed: 12130714). Channel properties are modulated by cytoplasmic beta subunits that regulate the subcellular location of the alpha subunits and promote rapid inactivation (PubMed: 12130714). Homotetrameric channels display rapid activation and slow inactivation (PubMed: 12130714 , PubMed: 8505626). Required for normal electrical conduction including formation of the infranodal ventricular

conduction system and normal action potential configuration, as a result of its interaction with XIRP2 (By similarity). May play a role in regulating the secretion of insulin in normal pancreatic islets.

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Pancreatic islets and insulinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.