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Kv10.1 Polyclonal Antibody

Catalog # AP63704

Product Information

Application	IHC-P
Primary Accession	Q8TAE7
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49593

Additional Information

Gene ID	170850
Other Names	KCNG3; Potassium voltage-gated channel subfamily G member 3; Voltage-gated potassium channel subunit Kv10.1; Voltage-gated potassium channel subunit Kv6.3
Dilution	IHC-P~~IHC 1:100-200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

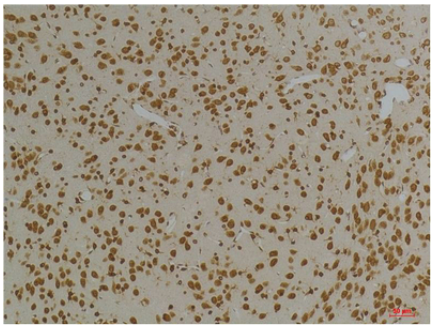
Protein Information

Name	KCNG3 (HGNC:18306)
Function	Regulatory subunit of the voltage-gated potassium (Kv) channel which, when coassembled with KCNB1, modulates the kinetics parameters of the heterotetrameric channel namely the inactivation and deactivation rate (PubMed:11852086, PubMed:12060745, PubMed:19074135). Potassium channel subunit that does not form functional channels by itself (PubMed:11852086, PubMed:12060745). Reduces the deactivation rate (PubMed:11852086). Moderately accelerates activation (PubMed:12060745).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cytoplasm. Note=Has to be associated with KCNB1 or possibly another partner to get inserted in the plasma membrane (PubMed:12060745). Colocalizes with KCNB1 at the plasma membrane (PubMed:12060745, PubMed:19074135). Retains in the endoplasmic reticulum in the absence of KCNB1 (PubMed:12060745)
Tissue Location	Expressed in the brain, liver, testis, small intestine, colon, thymus and adrenal gland (PubMed:11852086, PubMed:12060745).

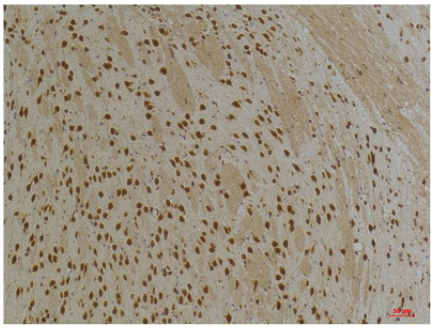
Background

Potassium channel subunit that does not form functional channels by itself (PubMed: 11852086). Can form functional heterotetrameric channels with KCNB1; this promotes a reduction in the rate of activation and inactivation of the delayed rectifier voltage-gated potassium channel KCNB1 (PubMed:11852086, PubMed:19074135).

Images



Immunohistochemical analysis of paraffin-embedded Rat BrainTissue using Kv10.1 Rabbit pAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Mouse BrainTissue using Kv10.1 Rabbit pAb diluted at 1:200.