

Kv10.1 Polyclonal Antibody
Catalog # AP63704**Specification**

Kv10.1 Polyclonal Antibody - Product Information

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

Kv10.1 Polyclonal Antibody - 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~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Kv10.1 Polyclonal Antibody - 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](http://www.uniprot.org/citations/11852086), PubMed: [12060745](http://www.uniprot.org/citations/12060745), PubMed: [19074135](http://www.uniprot.org/citations/19074135)). Potassium channel subunit that does not form functional channels by itself (PubMed: [11852086](http://www.uniprot.org/citations/11852086), PubMed: [12060745](http://www.uniprot.org/citations/12060745)). Reduces the deactivation rate (PubMed: [11852086](http://www.uniprot.org/citations/11852086)). Moderately accelerates activation (PubMed: [12060745](http://www.uniprot.org/citations/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

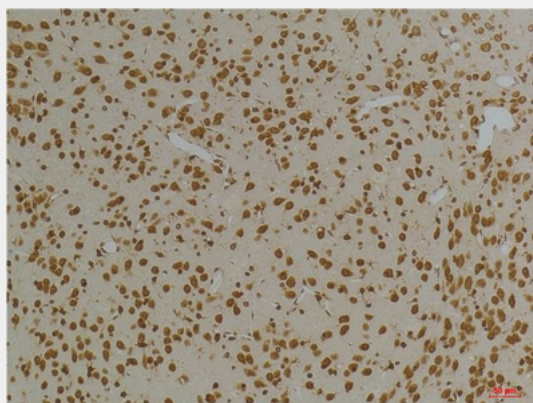
Expressed in the brain, liver, testis, small intestine, colon, thymus and adrenal gland (PubMed:11852086, PubMed:12060745).

Kv10.1 Polyclonal Antibody - Protocols

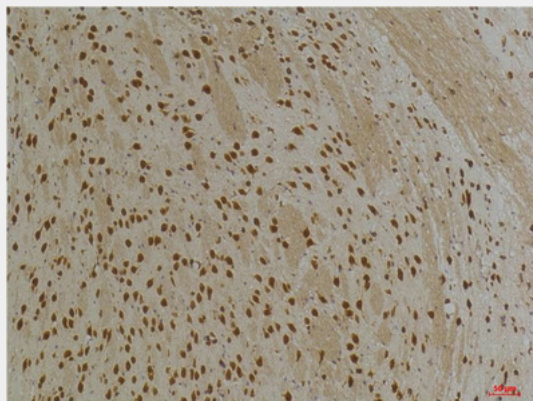
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Kv10.1 Polyclonal Antibody - Images



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



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

Kv10.1 Polyclonal Antibody - 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).