

Kv3.1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51297**Specification**

Kv3.1 Antibody - Product Information

Application	WB
Primary Accession	P48547
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58 KDa
Antigen Region	191 - 250

Kv3.1 Antibody - Additional Information**Gene ID** 3746**Other Names**

Potassium voltage-gated channel subfamily C member 1, NGK2, Voltage-gated potassium channel subunit Kv31, Voltage-gated potassium channel subunit Kv4, KCNC1

Target/Specificity

KLH conjugated synthetic peptide derived from human Kv3.1

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Kv3.1 Antibody - Protein Information**Name** KCNC1**Function**

Voltage-gated potassium channel that plays an important role in the rapid repolarization of fast-firing brain neurons. The channel opens in response to the voltage difference across the membrane, forming a potassium-selective channel through which potassium ions pass in accordance with their electrochemical gradient (PubMed:25401298). Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNC2, and possibly other family members as well. Contributes to fire sustained trains of very brief action potentials at high frequency in pallidal neurons.

Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, axon

{ECO:0000250|UniProtKB:P25122}. Presynaptic cell membrane

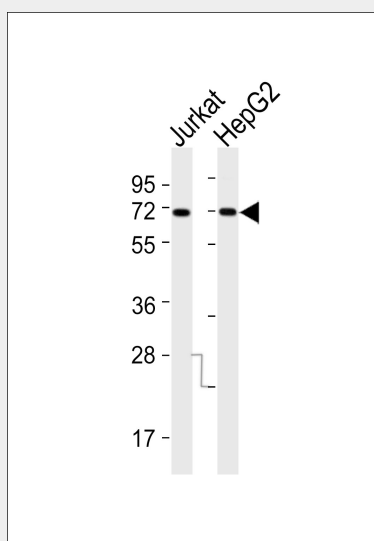
{ECO:0000250|UniProtKB:P25122}. Note=Localizes in parallel fiber membranes, distributed on the perisynaptic and extrasynaptic membranes away from the active zones.

{ECO:0000250|UniProtKB:P25122}

Kv3.1 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](#)

Kv3.1 Antibody - Images

All lanes : Anti-Kv3.1 Antibody at 1:1000 dilution Lane 1: Jurkat whole cell lysates Lane 2: HepG2 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 58 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

Kv3.1 Antibody - Background

Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient.

Kv3.1 Antibody - References

Ried T., et al. Genomics 15:405-411(1993).

Grissmer S.,et al.J. Biol. Chem. 267:20971-20979(1992).