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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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Kv1.6 Potassium Channel. Rabbit Polyclonal Antibody

BACKGROUND

The Kv1.6 potassium channel is a voltage-gated channel protein which belongs to the delayed rectifier class and to the Shaker potassium channel subfamily which includes Kv1.1, Kv1.2, Kv1.3, Kv1.4 and Kv1.5. Potassium channels are mainly found in plasma membranes but are not generally distributed over the cell surface. Potassium channels catalyze the rapid permeation of potassium ions while rejecting biologically abundant potential competitors such as sodium, calcium and magnesium. Ion selectivity and high through put rate of potassium channels is accomplished by precise co-ordination of dehydrated potassium by the protein and multiple ion occupancy within the permeation pathway. All potassium channels carry out the formation of a transmembrane leak specific for potassium ions. Since cells almost universally maintain cytoplasmic potassium concentrations higher than those extracellularly, the opening of a potassium channel implies a negative ongoing change in electrical voltage across the cell membrane. This may result in termination of the action potential of electrically excitable cells including nerve, muscle and pancreatic beta cells. In non-excitabile cells, potassium channels play important roles in the cellular potassium recycling required for electrolyte balance effected by the renal epithelium.

IMMUNOGEN

Synthetic peptide derived from the rat Kv1.6 potassium channel conjugated to KLH

POSITIVE CONTROL/TISSUE EXPRESSION

COMMENTS

This antibody can be used for Western blotting (5-10 μ g/ml). Optimal concentration should be evaluated by serial dilutions.

ORDERING INFORMATION

CATALOG NUMBER

X1502P

SIZE

100 μ g

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Human, Mouse, Rat

ACCESSION NUMBER

,

PURIFICATION

Ammonium Sulfate Precipitation

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Grupe, A et al. "Cloning and expression of a human voltage-gated potassium channel. A novel member of the RCK potassium channel family" EMBO J. 9 (6), 1749-1756 (1990)
2. Swanson, R et al. "Cloning and expression of cDNA and genomic clones encoding three delayed rectifier potassium channels in rat brain" Neuron 4 (6), 929-939 (1990)
3. Smart SL, et al. "Identification of the delayed rectifier potassium channel, Kv1.6, in cultured astrocytes." Glia (United States), 20(2) p127-34(1997)
4. Schmidt K, et al. "Heterogeneous expression of voltage-gated potassium channels of the shaker family (Kv1) in oligodendrocyte progenitors." Brain Res (Netherlands), 843(1-2) p145-60(1999)