

Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Kv1.5 Potassium Channel. Rabbit Polyclonal Antibody

Voltage-Gated Potassium Channel, Kv1.5 isoform

BACKGROUND

The Kv1.5 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 and Kv1.4. 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-excitable 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 Kv1.5 potassium channel conjugated to KLH

Western blot analysis using Kv1.5 antibody on rat brain lysate.

← Kv1.5 (66.5 kDa)

ORDERING INFORMATION

CATALOG NUMBER

X1501P

SIZE

100 μg

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

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

CONCENTRATION

See vial for concentration

ISOTYPE

lgG

APPLICATIONS

Western Blot

SPECIES REACTIVITY

Human, Mouse, Rat

ACCESSION NUMBER

Human P22460 Mouse Q61762 Rat P19024

Last Modified 11/1/2012

For research use only. Not for use in human diagnostics or therapeutics.

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Page 1 of 2 Cat. No. X1501P

Positive Control/Tissue Expression

Rat brain lysate

COMMENTS

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

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. 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)
- 2. Roberds, S.L. et.al 'Cloning and tissue-specific expression of five voltage-gated potassium channel cDNAs expressed in rat heart' Proc. Natl. Acad. Sci. U.S.A. 88 (5), 1798-1802 (1991)
- **3.** Mori, Yet.al 'The transcription of a mammalian voltage-gated potassium channel is regulated by cAMP in a cell-specific manner' J. Biol. Chem. 268 (35), 26482-26493 (1993)
- **4.** Li, H. et.al., 'Functional expression of a GFP-tagged Kv1.5 alpha-subunit in mouse ventricle.' Am J Physiol Heart Circ Physiol. 281(5):H1955-67 (2001)

PRODUCT SPECIFIC REFERENCES