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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Potassium Channel. Rabbit Polyclonal Antibody

BACKGROUND

Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I_{current} in heart and current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits. In response to membrane depolarization, Kv4.2 channels accumulate in the closed-inactivated state (s), from which they directly recover, bypassing the open state. Kv4.2 is a substrate for ERK in vitro and in vivo, and suggest that ERK may regulate potassium-channel function by direct phosphorylation of the pore-forming alpha subunit.

ORDERING INFORMATION

CATALOG NUMBER

X1038

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

IgG

APPLICATIONS

Western Blot, Immunoprecipitation, Immunofluorescence

SPECIES REACTIVITY

Rat

ACCESSION NUMBER

Q63881, Rat

IMMUNOGEN

Peptide made to a.a. 453-470 of rat Kv4.2 conjugated to KLH

POSITIVE CONTROL/TISSUE EXPRESSION

Highly expressed in heart and throughout the brain, with similar levels in cortex and hypothalamus, and much higher levels in hippocampus, dentate gyrus and the habenular nucleus of the thalamus. Detected at similar levels in heart atrium and ventricle. Detected in aorta, cardiac and smooth muscle.

COMMENTS

Optimal concentration should be evaluated by serial dilutions. Suggested Western Blot dilution 1:1000. Other applications: Immunoprecipitation, immunofluorescence.

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. 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)
2. Bähring, K. et.al. Kinetic analysis of open- and closed-state inactivation transitions in human Kv4.2 A-type potassium channels. J Physiol ;535(Pt 1):65-812001
3. Adams, T. et.al, The A-type potassium channel Kv4.2 is a substrate for the mitogen-activated protein kinase ERK. J Neurochem 5(6):2277-87 2000