

Voltage Gated Potassium Channel, Kv2.2 Subunit Antibody Affinity purified rabbit polyclonal antibody

Catalog # AN1063

Specification

Voltage Gated Potassium Channel, Kv2.2 Subunit Antibody - Product Information

Application Primary Accession	WB Q63099
Reactivity	Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	100 KD a

Voltage Gated Potassium Channel, Kv2.2 Subunit Antibody - Additional Information

Gene ID621349Gene NameKCNB2Other NamesPotassium voltage-gated channel subfamily B member 2, CDRK, Voltage-gated potassium channelsubunit Kv22, Kcnb2

Target/Specificity

Synthetic peptide corresponding to amino acid residues specific to the Kv2.2 subunit conjugated to KLH.

Dilution WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification using a Sulfo-Link® column matrix to which the peptide immunogen was coupled.

Antibody Specificity

Specific for the ~125k voltage gated potassium channel, Kv 2.2 subunit.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Voltage Gated Potassium Channel, Kv2.2 Subunit Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping Blue Ice

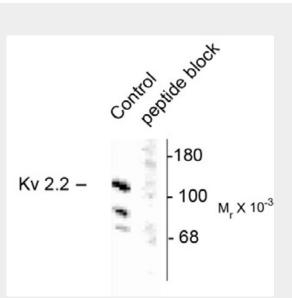
Voltage Gated Potassium Channel, Kv2.2 Subunit Antibody - Protocols



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

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Voltage Gated Potassium Channel, Kv2.2 Subunit Antibody - Images



Western blot of rat brain homogenate showing specific immunolabeling of the \sim 125k voltage-gated potassium channel, Kv2.2 (Control). The immunolabeling is blocked by preadsorption with the peptide used as antigen (Peptide block).

Voltage Gated Potassium Channel, Kv2.2 Subunit Antibody - Background

Voltage-gated K+ channels are important determinants of neuronal membrane excitability (Pongs, 1999). Moreover, differences in K+ channel expression patterns and densities contribute to the variations in action potential waveforms and repetitive firing patterns evident in different neuronal cell types. The delayed rectifier-type (IK)channels (Kv1.5, Kv2.1, and Kv2.2) are expressed on all neuronal somata and proximal dendrites and are also found in a wide variety of non-neuronal cells types including pancreatic islets, alveolar cells and cardiac myocytes (Hwang et al., 1993; Yan et al., 2004; Michaelevski et al., 2003). Kv2.1 and Kv2.2 form distinct populations of K+ channels and these subunits are thought to be primarily responsible for IK in superior cervical ganglion cells (Blaine and Ribera, 1998; Burger and Ribera, 1996).

Voltage Gated Potassium Channel, Kv2.2 Subunit Antibody - References

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Michaelevski I, Chikvashvili D, Tsuk S, Singer-Lahat D, Kang YH, Linial M, Gaisano HY, Fili O, Lotan I



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