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Anti-Potassium Channel, Voltage-Gated, Kv3.1 Subunit (Ser503) Antibody

Our Anti-Potassium Channel, Voltage-Gated, Kv3.1 Subunit (Ser503) rabbit polyclonal phosphospecific
Catalog # AN1522

Product Information

Application	WB, IHC, ICC
Primary Accession	P25122
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	65857

Additional Information

Gene ID	25327
Other Names	C230009H10Rik antibody, FLJ41162 antibody, FLJ42249 antibody, FLJ43491 antibody, Kcnc1 antibody, KCNC1 antibody, KCNC1_HUMAN antibody, Kcr2 1 antibody, KShIIIB antibody, Kv3.1 antibody, Kv4 antibody, MGC129855 antibody, NGK2 antibody, Potassium voltage-gated channel subfamily C member 1 antibody, Shaw antibody, Voltage gated potassium channel antibody, Voltage gated potassium channel subunit Kv3.1 antibody, Voltage-gated potassium channel subunit Kv3.1 antibody, Voltage-gated potassium channel subunit Kv4 antibody
Target/Specificity	Voltage-gated K+ channels are important determinants of neuronal membrane excitability. 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 (Maletic-Savatic et al., 1995; Pongs, 1999; Blaine and Ribera, 1998; Burger and Ribera, 1996). The Kv3.1 potassium channel is expressed at high levels in neurons that characteristically fire rapid trains of action potentials (Gan et al., 1999). Particularly high levels of this channel are found in neurons of the auditory brainstem. These neurons appear to participate in neural circuits that determine the intensity and timing of auditory stimuli and use this information to determine the location of sounds in space (von Hehn et al., 2004).
Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A
Format	Antigen Affinity Purified from Pooled Serum
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	Anti-Potassium Channel, Voltage-Gated, Kv3.1 Subunit (Ser503) Antibody is for

	research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

Voltage-gated K+ channels are important determinants of neuronal membrane excitability. 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 (Maletic-Savatic et al., 1995; Pongs, 1999; Blaine and Ribera, 1998; Burger and Ribera, 1996). The Kv3.1 potassium channel is expressed at high levels in neurons that characteristically fire rapid trains of action potentials (Gan et al., 1999). Particularly high levels of this channel are found in neurons of the auditory brainstem. These neurons appear to participate in neural circuits that determine the intensity and timing of auditory stimuli and use this information to determine the location of sounds in space (von Hehn et al., 2004).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.