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Anti-Phospho-Potassium Channel, Voltage Gated, Kv3.1-Subunit (Ser503) Kcnc1 Antibody

Catalog Number: P06871

About KCNC1

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).

Overview

Product Name	Anti-Phospho-Potassium Channel, Voltage Gated, Kv3.1-Subunit (Ser503) Kcnc1 Antibody
Reactive Species	Hamster, Mouse, Rat
Description	Boster Bio Anti-Phospho-Potassium Channel, Voltage Gated, Kv3.1-Subunit (Ser503) Kcnc1 Antibody (Catalog # P06871). Tested in WB, IHC, ICC applications. This antibody reacts with Hamster, Mouse, Rat.
Application	IHC, ICC, WB
Clonality	Polyclonal 1B9
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	P25122

Technical Details

Immunogen	The antigen is a phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser503 of the rat voltage-gated potassium channel Kv3.1, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Rat.
Predicted Reactive Species	Bovine, Canine, Primate, Sheep
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

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Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:1000 IHC: 1:400-1:1000 ICC: 1:400

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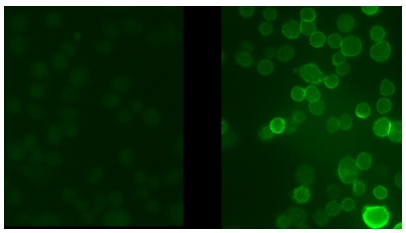
Anti-Phospho-Potassium Channel, Voltage Gated, Kv3.1-Subunit (Ser503) Kcnc1 Antibody (P06871) Images



Immunostaining of medial nucleus of the trapezoid body (MNTB) cells with the phospho-Ser^{503} Kv3.1 subunit antibody. The left panel shows control cells. The right panel shows cells that have been exposed to the protein kinase C activator PMA.