

Product datasheet for AP08729PU-N

Kcnc1 pSer503 Rabbit Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Dot Blot: 1/1000. Western blot: 1/1000. Immunofluorescence. Immunohistochemistry on Frozen Sections: 1/1000.
Reactivity:	Mouse, Rat
Host:	Rabbit
lsotype:	IgG
Clonality:	Polyclonal
Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser503 of KCNC1 conjugated to keyhole limpet hemocyanin (KLH).
Specificity:	This antibody recognizes the ~100k KCNC1 (Kv3.1) protein phosphorylated at Ser503 in Rat brain extracts.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% Glycerol. State: Aff - Purified State: Liquid purified lg fraction.
Purification:	Sequential Chromatography on phospho- and dephosphopeptide affinity columns.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	potassium voltage-gated channel subfamily C member 1
Database Link:	<u>Entrez Gene 25327 Rat</u> <u>P25122</u>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US Synonyms:Kcnc1 pSer503 Rabbit Polyclonal Antibody - AP08729PU-NBackground: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).Synonyms:Potassium voltage-gated channel subfamily C member 1, Voltage-gated potassium channel
subunit Kv3.1, Kv4, NGK2

Product images:

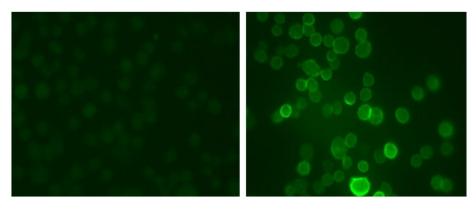


Figure 1. Immunohistochemistry staining of medial nucleus of the trapezoid body (MNTB) cells with the phospho-Ser503 Kv3.1 subunit antibody. Left: Control cells. Right: Cells that have been exposed to the protein kinase C activator PMA.

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