

Datasheet for ABIN361488

anti-KCNC1 antibody (pSer503)

3 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	KCNC1
Binding Specificity:	pSer503
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser503 conjugated to KLH
Specificity:	Specific for the ~100k Kv3.1 voltage-gated potassium channel protein phosphorylated at Ser503.
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Purification:	Antigen Affinity Purified from Pooled Serum

Target Details

Target:	KCNC1
Alternative Name:	KCNC1 (KCNC1 Products)

Target Details

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).

Molecular Weight: '100 kDa

Gene ID: 25327

UniProt: [P25122](#)

Application Details

Application Notes: Recommended Dilution: WB: 1:1000 IHC (frozen sections, unpublished observations): 1:1000
Quality Control: Western blots performed on each lot.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.

Storage: -20 °C

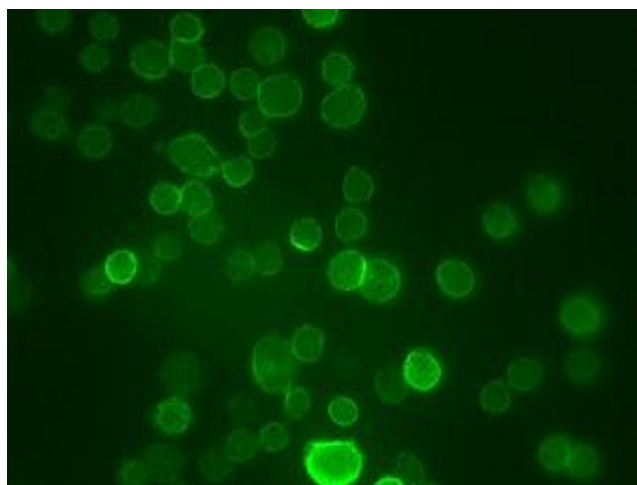
Publications

Product cited in: Yang, Xu, Li, Duan, Fu, Zhang, Zhao, Qiao, Chen, Geng, Che, Cao, Wang, Zhang, Long, He, Cui, Chen, Wang, Liu: "Cloning and characterization of a novel intracellular protein p48.2 that negatively regulates cell cycle progression." in: **The international journal of biochemistry & cell biology**, Vol. 41, Issue 11, pp. 2240-50, (2009) ([PubMed](#)).



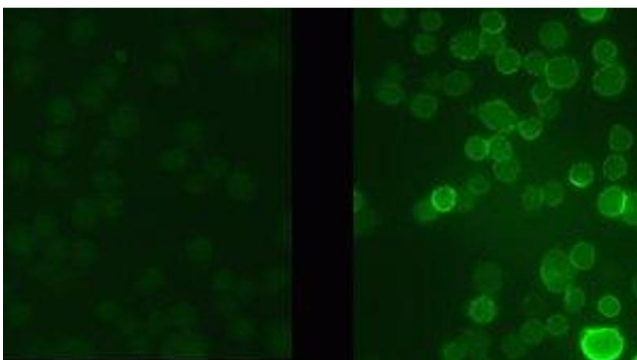
Immunohistochemistry

Image 1. IHC staining of medial nucleus of the trapezoid body (MNTB) cells with the phospho-Ser503 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.



Immunohistochemistry

Image 2. IHC staining of medial nucleus of the trapezoid body (MNTB) cells with the phospho-Ser503 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.



Immunostaining

Image 3. Immunostaining of medial nucleus of the trapezoid body (MNTB) cells with the phospho-Ser503 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.