Datasheet for ABIN372706

anti-KCNC1 antibody (pSer503)

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Overview

Quantity:	0.1 mL
Target:	KCNC1
Binding Specificity:	pSer503
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNC1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Frozen Sections) (IHC (fro)), Dot Blot (DB)

Product Details

Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser503 of KCNC1 conjugated to keyhole limpet hemocyanin (KLH).
Isotype:	IgG
Specificity:	This antibody recognizes the ~100k KCNC1 (Kv3.1) protein phosphorylated at Ser503 in Rat brain extracts.
Cross-Reactivity (Details):	Species reactivity (tested):Rat and Mouse.
Purification:	Sequential Chromatography on phospho- and dephosphopeptide affinity columns.

Target Details

Target:	KCNC1

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Target Details

Alternative Name:	KCNC1 (KCNC1 Products)
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).Synonyms: Kv4, NGK2, Potassium voltage-gated channel subfamily C member 1, Voltage-gated potassium channel subunit Kv3.1
Gene ID:	25327
NCBI Accession:	NP_036988
UniProt:	P25122

Application Details

Application Notes:	Dot Blot: 1/1000. Western blot: 1/1000. Immunohistochemistry on Frozen Sections: 1/1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA and 50 % Glycerol.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store the antibody undiluted (in aliquots) at-20 °C.

Publications

Product cited in:	Montserrat, Ramírez-Bajo, Xia, Sancho-Martinez, Moya-Rull, Miquel-Serra, Yang, Nivet, Cortina,

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Publications

González, Izpisua Belmonte, Campistol: "Generation of induced pluripotent stem cells from human renal proximal tubular cells with only two transcription factors, OCT4 and SOX2." in: **The Journal of biological chemistry**, Vol. 287, Issue 29, pp. 24131-8, (2012) (PubMed).

Vassena, Montserrat, Carrasco Canal, Aran, de Oñate, Veiga, Izpisua Belmonte: "Accumulation of instability in serial differentiation and reprogramming of parthenogenetic human cells." in: **Human molecular genetics**, Vol. 21, Issue 15, pp. 3366-73, (2012) (PubMed).

Montserrat, Bahima, Batlle, Häfner, Rodrigues, González, Izpisúa Belmonte: "Generation of pig iPS cells: a model for cell therapy." in: **Journal of cardiovascular translational research**, Vol. 4, Issue 2, pp. 121-30, (2011) (PubMed).

Montserrat, Garreta, González, Gutiérrez, Eguizábal, Ramos, Borrós, Izpisua Belmonte: "Simple generation of human induced pluripotent stem cells using poly-beta-amino esters as the non-viral gene delivery system." in: **The Journal of biological chemistry**, Vol. 286, Issue 14, pp. 12417-28, (2011) (PubMed).

Rodríguez-Pizà, Richaud-Patin, Vassena, González, Barrero, Veiga, Raya, Izpisúa Belmonte: " Reprogramming of human fibroblasts to induced pluripotent stem cells under xeno-free conditions." in: **Stem cells (Dayton, Ohio)**, Vol. 28, Issue 1, pp. 36-44, (2010) (PubMed).

Images

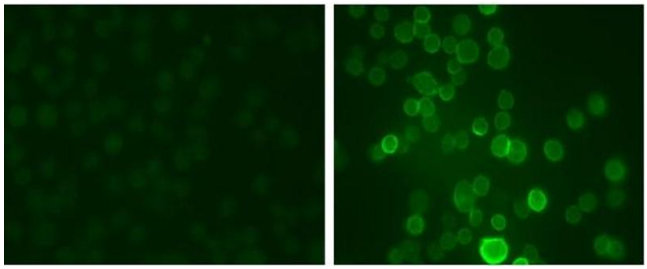

Image 1.

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