ARG52399
anti-Kv3.1 phospho (Ser503) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Kv3.1 phospho (Ser503)
Tested Reactivity	Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Kv3.1
Species	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser503 conjugated to KLH
Conjugation	Un-conjugated
Alternate Names	Potassium voltage-gated channel subfamily C member 1; EPM7; NGK2; KV3.1; KV4; Voltage-gated potassium channel subunit Kv4; Voltage-gated potassium channel subunit Kv3.1

Application Instructions

Application table

Application	Dilution
IHC-P	frozen sections: 1:1000
WB	1:1000

Application Note: Specific for the ~100k Kv3.1 voltage-gated potassium channel protein phosphorylated at Ser503.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

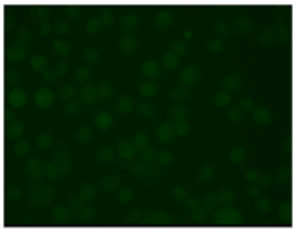
Properties

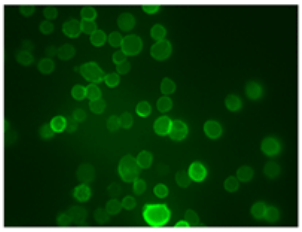
Form	Liquid
Purification	Affinity Purified
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol
Stabilizer	0.1 mg/ml BSA, 50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 16502 Mouse GeneID: 25327 Rat Swiss-port # P15388 Mouse Swiss-port # P25122 Rat
Gene Symbol	KCNC1
Gene Full Name	potassium channel, voltage gated Shaw-related subfamily C, member 1
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).
Research Area	Neuroscience antibody
Calculated Mw	58 kDa
PTM	N-glycosylated; contains sialylated glycans.

Images





ARG52399 anti-Kv3.1 phospho (Ser503) antibody ICC/IF image

Immunofluorescence: medial nucleus of the trapezoid body (MNTB) cells stained with ARG52399 anti-Kv3.1 phospho (Ser503) antibody.
The left panel shows control cells.
The right panel shows cells that have been exposed to the protein kinase C activator PMA.
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