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Datasheet for 600-401-E14

Potassium Channel, Voltage-Gated, Kv3.1 phospho S503 Antibody

Overview

Description:	Anti-Potassium Channel, Voltage-Gated, Kv3.1 pS503 (RABBIT) Antibody - 600-401-E14
Item No.:	600-401-E14
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Potassium Channel, Voltage Gated Kv2.2 pS503 Antibody detects Voltage Gated Potassium Channel Kv2.2 pS503 protein. 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. The Kv3.1 potassium channel is expressed at high levels in neurons that characteristically fire rapid trains of action potentials. Anti-Potassium Channel, Voltage Gated Kv2.2 pS503 Antibody is ideal for investigators involved in Neuroscience and Cell Signaling research.
Synonyms:	Potassium voltage-gated channel subfamily C member 1, NGK2, RAW2, Voltage-gated potassium channel subunit Kv4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Kcnc1
Reactivity:	Mouse, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Potassium Channel, Voltage-Gated Kv3.1 pS503 Antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Ser503.
Purity/Specificity:	Anti-Potassium Channel, Voltage Gated Kv2.2 pS5003 Antibody is directed against phosphorylated rat Voltage Gated Potassium Channel Kv2.2. Potassium Channel, Voltage-Gated Kv3.1 pS503 antibodies are affinity purified from monospecific antiserum by immunoaffinity purification. Reactivity is expected from mouse. Cross reactivity with Kv2.2 from other species has not been determined.
Relevant Links:	• UniProtKB - P25122 • GeneID - 25327 • UniProtKB - P25122.1

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Potassium Channel, Voltage-Gated Kv3.1 pS503 Antibody is tested for use in Western Blotting and IHC. Expect a band of approximately 100kDa in size corresponding to Kv3.1 voltage-gated potassium channel protein phosphorylated at Ser503 in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:1000
WB:	1:1000

Formulation

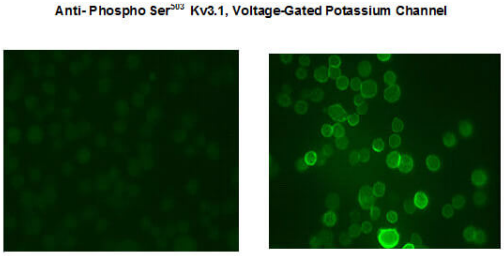
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



IHC staining 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.

Immunohistochemistry
Immunohistochemistry of Rabbit anti-Potassium Channel, Voltage-Gated, Kv3.1 pS503 antibody. Tissue: trapezoid body (MNTB) cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Potassium Channel, Voltage-Gated, Kv3.1 pS503 antibody at 1:1000 for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Potassium Channel, Voltage-Gated, Kv3.1 pS503 is in the medial nucleus. Staining: 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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