www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-Potassium Channel, Voltage-Gated, Kv3.1 Subunit (Ser503) Antibody

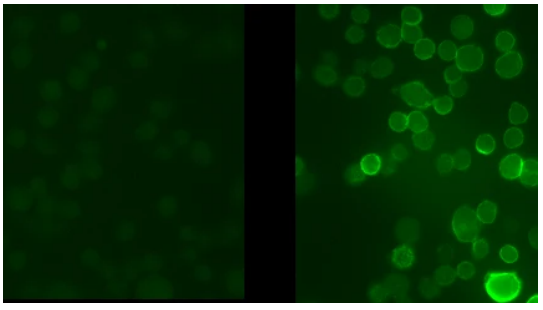
phosphosolutions ANTIBODIES THAT WORK Pooled Serum

Product Details

Available Variants	100 µL (SKU:p1550-503) 25 µL (SKU:p1550-503t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	KCNC1
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:400-1:1000 ICC: 1:400
Species Reactivity	Mouse, Rat
Immunogen	The antigen is a phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser503 of the rat voltage-gated potassium channel Kv3.1, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~100 kDa Kv3.1 voltage-gated potassium channel protein phosphorylated at Ser503.
Molecular Weight	100 kDa

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_2492212
UniProt ID	P25122 UniProt Summary: Voltage-gated potassium channel that opens in response to the voltage difference across the membrane and through which potassium ions pass in accordance with their electrochemical gradient (PubMed:25401298, PubMed:35840580). The mechanism is time-dependent and inactivation is slow (By similarity). Plays an important role in the rapid repolarization of fast-firing brain neurons (By similarity). Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNC2, and possibly other family members as well (By similarity). Contributes to fire sustained trains of very brief action potentials at high frequency in pallidal neurons (By similarity). {ECO:0000250|UniProtKB:P25122, ECO:0000269|PubMed:25401298, ECO:0000269|PubMed:35840580}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser503
NCBI Gene ID	25327

Product Images



Immunostaining of Chinese Hamster Overy (CHO) cells stably transfected with KV3.1b gene with the phospho-Ser503 Kv3.1 subunit antibody (Cat. p1550-503, green, 1:400). The image on the right shows cells that have been treated with the protein kinase C activator PMA (500nM) while the control cells are on the left.



Created on 30. October 2026 | All information without guarantee