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

PRODUCT DATASHEET

Anti-Kv3.3 Potassium Channel Antibody

Product Details

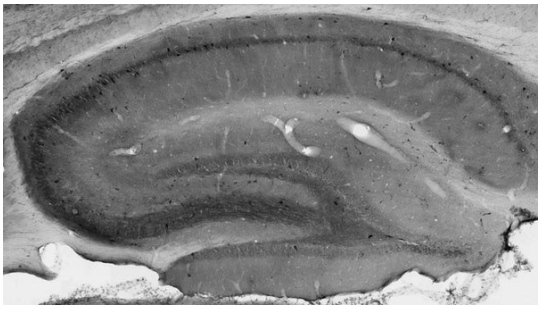
Available Variants	100 µL (SKU:75-354)
Conjugate	Unconjugated
Isotype	IgG1
Clone	N375/67
Gene Name	Kcnc3
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.125
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, IHC, WB
Species Reactivity	Human, Mouse, Rat
Immunogen	Fusion protein amino acids 628-728 (cytoplasmic C-terminus) of mouse Kv3.3b (accession number Q63959) produced recombinantly in E. Coli
Specificity	Does not cross-react with Kv3.4 or Kv3.2
Molecular Weight	80-100 kDa (depending on isoform)
Quality Control	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.
Antibody Registry ID	AB_2315872
UniProt ID	Q63959 UniProt Summary: Voltage-gated potassium channel that plays an important role in the rapid repolarization of fast-firing brain neurons. The channel opens in response to the voltage difference across the membrane, forming a potassium-selective channel through which potassium ions pass in accordance with their electrochemical gradient. The channel displays rapid activation and inactivation kinetics. It plays a role in the regulation of the frequency, shape and duration of action potentials in Purkinje cells. Required for normal survival of cerebellar neurons, probably via its role in regulating the duration and frequency of action potentials that in turn regulate the activity of voltage-gated Ca(2+) channels and cellular Ca(2+) homeostasis. Required for normal motor function. Plays a role in the reorganization of the cortical actin cytoskeleton and the formation of actin veil structures in neuronal growth cones via its interaction with HAX1 and the Arp2/3 complex.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	16504

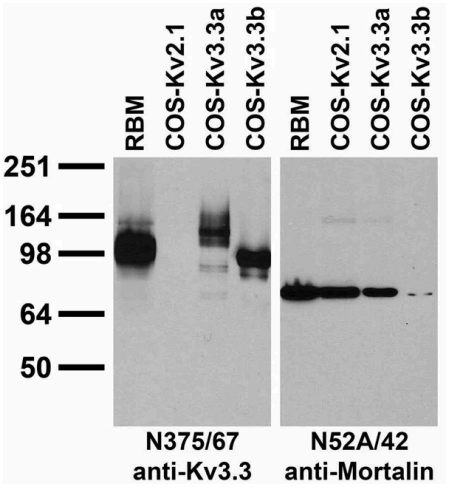
Product Images



Adult rat hippocampus immunohistochemistry.



Whole brain immunohistochemistry.



Immunoblot against adult rat brain membrane (RBM) fractions and extracts of COS cells transiently transfected with untagged Kv3.3a, Kv3.3b or Kv2.1 plasmid probed with N375/67 (left) or N52A/42 (right) TC supe.