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

PRODUCT DATASHEET

Anti-Cav3.2 Ca2+ Channel Antibody

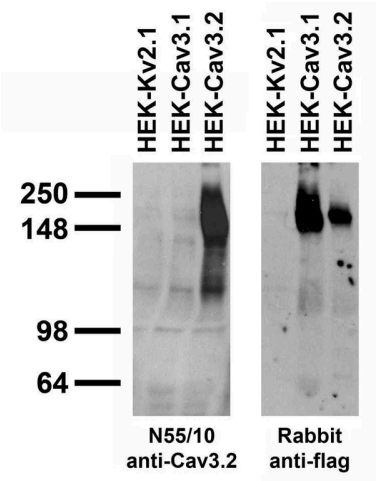
NeuroMab KO Validated

Product Details

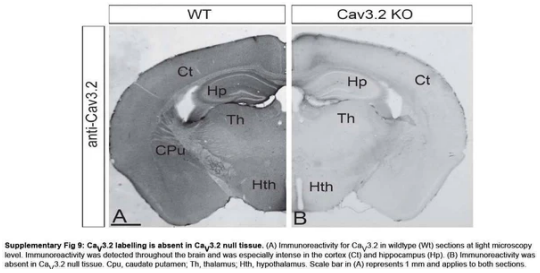
Available Variants	100 µL (SKU:75-095)
Conjugate	Unconjugated
Isotype	IgG1
Clone	N55/10
Gene Name	CACNA1H
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.22
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, IHC, IP, WB
Species Reactivity	Human, Mouse, Rat, Tree Shrew
Immunogen	Fusion protein amino acids 1019-1293 (cytoplasmic loop between repeat II and repeat III) of human Cav3.2 (accession number O95180), epitope mapped to amino acids 1179-1192 (AEDGRAAPGPRATP) produced recombinantly in E. Coli
Specificity	Does not cross-react with Cav3.1
Molecular Weight	260 kDa
Quality Control	Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern.

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_2069551
UniProt ID	O95180
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.

Product Images



Stable cell immunoblot: extracts of HEK cells stably-expressing Flag-tagged Cav3.2, Cav3.1 or untagged Kv2.1 plasmid and probed with N55/10 TC supe (left) or Rabbit anti-Flag (right).



Supplementary Fig 9: $Ca_v3.2$ labelling is absent in $Ca_v3.2$ null tissue. (A) Immunoreactivity for $Ca_v3.2$ in wildtype (Wt) sections at light microscopy level. Immunoreactivity was detected throughout the brain and was especially intense in the cortex (Ct) and hippocampus (Hp). (B) Immunoreactivity was absent in $Ca_v3.2$ null tissue. Cpu, caudate putamen; Th, thalamus; Hth, hypothalamus. Scale bar in (A) represents 1 mm and applies to both sections.

Immunohistochemistry of coronal brain sections from WT and Cav3.2 KO mice. Reproduced with permission from Mala Shah (University College London, England, UK) and Nature Neuroscience (2011, Huang et al., PMID 21358644).