

Product datasheet for 75-095

CACNA1H Mouse Monoclonal Antibody [Clone ID: N55/10]

Product data:

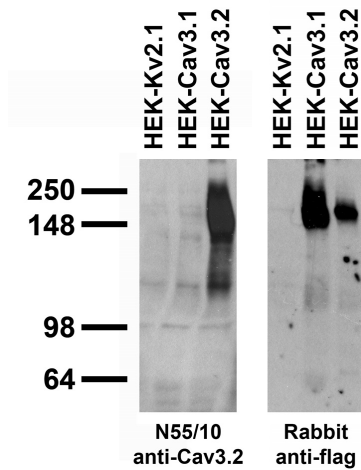
| | |
|---------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | N55/10 |
| Applications: | IF, IHC, IP, WB |
| Recommend Dilution: | Immunoblot (IB) Immunohistochemistry (IHC) Immunocytochemistry (ICC) Immunoprecipitation (IP) |
| Reactivity: | Human, Mouse |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Fusion protein amino acids 1019-1293 (cytoplasmic loop between repeat II and repeat III) of human Cav3.2 (also known as Voltage-dependent T-type calcium channel subunit alpha-1H, Lowvoltage-activated calcium channel alpha1 3.2 subunit, CACNA1H and Kiaa1120, accession number O95180), epitope mapped to amino acids 1179-1192 (AEDGRAAPGPRATP). Rat: 77% identity (224/279 amino acids identical), 54% identity for epitope (12/22 amino acids identical), 89% identity for highlighted epitope sequence (8/9 amino acids identical). Mouse: 77% identity (224/279 amino acids identical), 54% identity for epitope (12/22 amino acids identical), 89% identity for highlighted epitope sequence (8/9 amino acids identical). |
| Specificity: | Does not cross-react with Cav3.1 |
| Formulation: | State: Purified |
| Gene Name: | calcium voltage-gated channel subunit alpha1 H |
| Database Link: | Entrez Gene 8912 Human |
| Synonyms: | Cav3.2 |



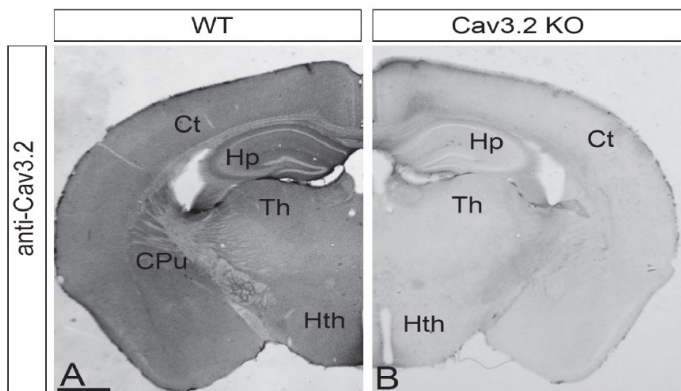
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Note: USERS will cite the UC Davis/NIH NeuroMab Facility in any publication(s) describing the research utilizing the MATERIALS. The suggested acknowledgment statement is as follows: "The monoclonal antibody _ was developed by and/or obtained from the UC Davis/NIH NeuroMab Facility, supported by NIH grant U24NS050606 and maintained by the Department of Neurobiology, Physiology and Behavior, College of Biological Sciences, University of California, Davis, CA 95616." Also, please include the complete clone number (e.g., N52A/42) and the Antibody Registry identification number (e.g., RRID:AB_2120479) to avoid ambiguity. [View Research License Agreement](#)

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).



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).

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.