

UC Davis/NIH NeuroMab Facility Department of Physiology and Membrane Biology, UC Davis, Davis CA 95616 http://neuromab.ucdavis.edu neuromab@ucdavis.edu

Anti-Kv2.2 potassium channel, NeuroMab clone N372C/51

250·

148

98

64

Available as TC supe (RRID: AB_2315865) & Pure IgG (RRID: AB_2315866)

Immunogen:

 Fusion protein amino acids 717-907 (cytoplasmic C-terminus) of rat Kv2.2 long isoform (also known as Potassium voltage-gated channel subfamily B member 2, Kcnb2 and CDRK, accession number NP_446452.2)

 Mouse: 94% identity (180/191 amino acids identical)

 Human: 84% identity (161/191 amino acids identical)

 <50% identity with Kv2.1 and other Kv2 channels</td>

 100% identity with Kv2.2 short isoform for first 47 amino acids

 (ENRGSAPQTPPSTARPLPVTTADFPLTTPQHMSTILLEEAL PQGQRP)

 PAGQRP

Monoclonal antibody info: Mouse strain: Balb/C Myeloma cell: SP2/0 Mouse Ig Isotype: IgG1

<u>NeuroMab Applications:</u> Immunoblot, Immunocytochemistry & Immunohistochemistry

Species Reactivity: rat, mouse

Cross-reacts with Kv2.2 short isoform

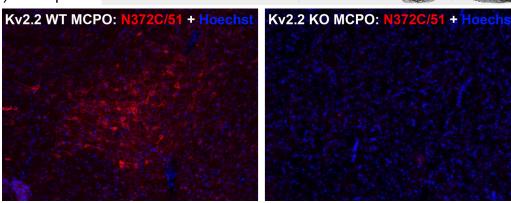
Does not cross-react with Kv2.1

MW: 120 kDa

Top: immunoblot against extracts of COS cells transiently transfected with GFP-tagged Kv2.2long, Myc-tagged Kv2.2short or untagged Kv2.1 plasmid; and adult brain membranes from rat (RBM), Kv2.2 wild-type (WT) and knockout (KO) mice probed with N372C/51 (left) or N52A/42 (right) TC supe.

Middle: adult rat brain immunohistochemistry

Bottom: immunofluorescence staining of wild-type (WT) and Kv2.2 knockout (KO) mouse magnocellular preoptic nucleus (MCPO) with N372C/51 (red) and Hoechst stain (blue).



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