



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

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

100% identity with Kv2.2 short isoform for first 47 amino acids  
(ENRGSAPQTPPSTARPLPVTTADFPLTTPQHMSTILLEAL  
PQGQRP)

#### Monoclonal antibody info:

Mouse strain: Balb/C

Myeloma cell: SP2/0

Mouse Ig Isotype: IgG1

#### NeuroMab Applications:

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).

