



### Anti-Kv2.2 potassium channel, NeuroMab clone N372B/60

#### 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 (ENRGSAPQTPPSTARPLPVTADFLPTTPQHMSITLLEEALPQGQRP)

#### Monoclonal antibody info:

Mouse strain: Balb/C

Myeloma cell: SP2/0

Mouse Ig Isotype: IgG2b

#### NeuroMab Applications:

Immunoblot, Immunocytochemistry and Immunohistochemistry

Species Reactivity: rat, mouse

Does not cross-react with Kv2.2 short isoform

Does not cross-react with Kv2.1

MW: 120 kDa

Immunoblot against extracts of COS cells transiently transfected with GFP-tagged Kv2.2long, Myc-tagged Kv2.2short or untagged Kv2.1 plasmid probed with N372B/60 (left), N372C/51 (middle) or N52A/42 (right) TC supe.

Immunofluorescence staining of adult wild-type (WT) and Kv2.2 knockout (KO) mouse magnocellular preoptic nucleus (MCPO) with N372B/60 (red) and Hoechst nuclear stain (blue).

