



Anti-Kv4.2 potassium channel (external), NeuroMab clone K57/1

Available as TC supe (RRID:AB_10672254 & Pure IgG (RRID:AB_2131945))

Immunogen:

Synthetic peptide amino acids 209-225 (CGSSPGHIKELPSGERY, extracellular S1-S2 loop, where third Ser was substituted in place of a Cys for peptide conjugation purposes) of human Kv4.2 (Potassium voltage-gated channel subfamily D member 2, Voltage-gated potassium channel subunit Kv4.2, Kcnd2, Kiaa1044, MNCb-7013, RK5 and Shal1, accession number Q9NZV8)

Rat: 100% identity (17/17 amino acids identical)

Mouse: 100% identity (17/17 amino acids identical)

>75% identity with Kv4.3

Monoclonal antibody info:

Mouse strain: Balb/C

Myeloma cell: SP2/0

Mouse Ig Isotype: IgG1

NeuroMab Applications:

Immunoblot, Immunocytochemistry, Immunohistochemistry and Immunoprecipitation

Species Reactivity: rat, mouse, worm

Does not cross-react with Kv4.3

MW: 70 kDa

Top left: immunoblot against crude brain membranes from adult rat (RBM) and wild-type (MBM-WT) and Kv4.2 knockout (MBM-Kv4.2-KO) mice probed with K57/1 (left) or K89/41 (right) TC supe.

Top right: immunoblot against crude C. elegans worm extracts and RBM

Middle: immunoblot against crude membranes from whole mouse (MBM) or rat (RBM) brain and from human cerebellum [HBM(Cb)], cerebral cortex [HBM(Cx)] or hippocampus [HBM(H)] and probed with K57/1 (left) or N52A/42 loading control (right) TC supe.

Bottom left: adult rat brain immunohistochemistry

Bottom right: immunofluorescence staining of adult wild-type (WT) and Kv4.2 knockout (Kv4.2^{-/-}) mouse hippocampus with K57/1 (red) and Kv2.1 rabbit (green).

