



Anti-Kv2.1 potassium channel subunit, NeuroMab clone K89/34

Immunogen:

Synthetic peptide amino acids 837-853 (HMLPGGGAHGSTRDQSI, cytoplasmic C-terminus) of rat Kv2.1 (also known as Potassium voltage-gated channel subfamily B member 1, Delayed rectifier potassium channel 1, DRK1, Kcnb1 and Shab, accession number P15387)

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

Human: 88% identity (15/17 amino acids identical, RVLPGGGAHGSTRDQSI)

Monoclonal antibody info:

Mouse strain: Balb/C

Myeloma cell: SP2/0

Mouse Ig Isotype: IgG1

NeuroMab Applications:

Immunoblot, Immunohistochemistry and Immunoprecipitation

Species Reactivity: rat, mouse, human

No cross-reactivity against rat Kv2.2

MW: 105-125 kDa (varies with cell background due to phosphorylation)

Top: adult rat brain membrane immunoblot

Middle left: immunoblot on adult mouse brain membranes from two wild-type mice (MBM-WT) and one Kv2.1 knockout (MBM-Kv2.1-KO) mouse. Samples courtesy of Dr. Jeanne Nerbonne, Washington University School of Medicine.

Middle right: immunoblots on brain membranes prepared from whole rat (RBM) and mouse (MBM) brain, and from human hippocampus [HBM(H)], cerebral cortex [HBM(Cx)] and cerebellum [HBM(Cb)].

Bottom: adult rat hippocampus immunohistochemistry

