NeuroMab

Anti-Kv2.2 potassium channel, NeuroMab clone K37/89

Available as TC supe (RRID:AB_10673393) & Pure IgG (RRID:AB_2131665)

Immunogen:

Fusion protein amino acids 1-61 (MAEKAPPGLNRKTSRSTLSLPPEPVDIIRSKTCSRRVKINVGGLN HEVLWRTLDRLPRTRL, cytoplasmic N-terminus) of human Kv2.2 (also known as Potassium voltage-gated channel subfamily B member 2, Kcnb2 and CDRK, accession number Q92953)

Rat: 100% identity (61/61 amino acids identical)
Mouse: 100% identity (61/61 amino acids identical)
>65% identity with Kv2.1

Monoclonal antibody info:
Mouse strain: Balb/C
Myeloma cell: SP2/0
Mouse Ig Isotype: IgG2a

NeuroMab Applications:
Immunoblot, Immunocytochemistry,
Immunohistochemistry and

Immunoprecipitation

Species Reactivity: human, rat, mouse

Does not cross-react with Kv2.1

MW: 120 kDa

Top left: immunoblot against adult rat brain membranes (RBM) and extracts of COS cells transiently transfected with Myc-tagged Kv2.2short, GFP-tagged Kv2.2long or untagged Kv2.1 plasmid probed with K37/89 (left), K89/34 (middle) or N52A/42 (right) TC supe.
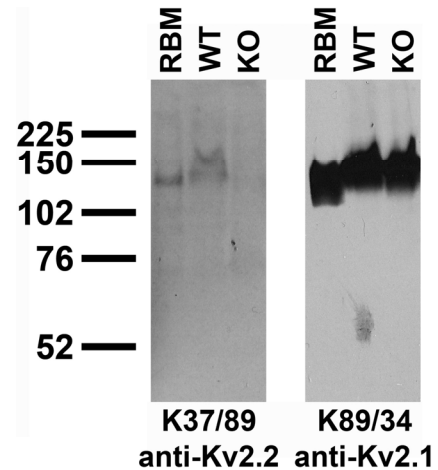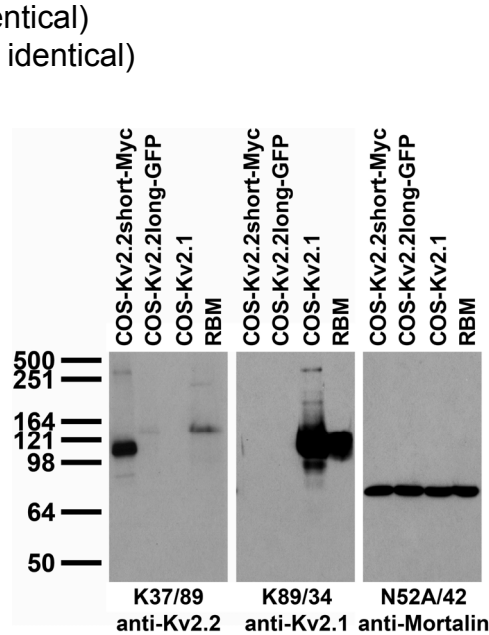
Top right: immunoblot against adult rat brain membranes (RBM) and membranes from Kv2.2 wild-type (WT) and knockout (KO) mice probed with K37/89 (left) or K89/34 TC supe. Mouse brains courtesy of Amy Huntley and Jeanne Nerbonne (Washington University).
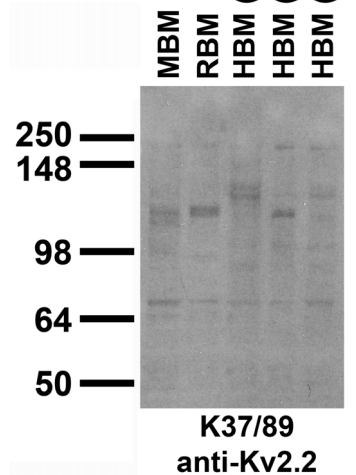
Middle: immunoblot against crude membrane fractions from whole mouse (MBM) or rat (RBM) brain and from human cerebellum [HBM(Cb)], cerebral cortex [HBM(Cx)] or hippocampus [HBM(H)] and probed with K37/89 TC supe.

Bottom: adult rat basal forebrain immunofluorescence with antigen retrieval via sodium citrate pretreatment with K37/89 (red) and Kv2.1 rabbit (green). Image courtesy of Kaori Misonou and Hiroaki Misonou (University of Maryland, now at Doshisha University, Japan).