UC Davis/NIH NeuroMab Facility
Department of Physiology and Membrane Biology, UC Davis, Davis CA 95616
http://neuromab.ucdavis.edu neuromab@ucdavis.edu

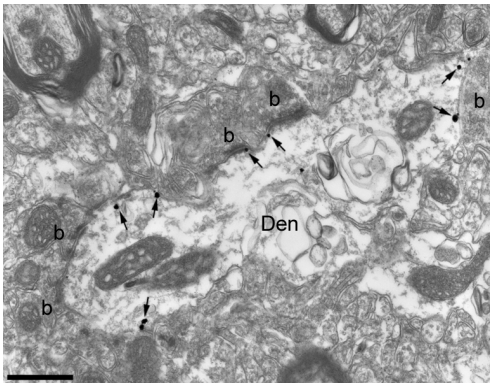
Anti-Kv4.3 potassium channel subunit, NeuroMab clone K75/41

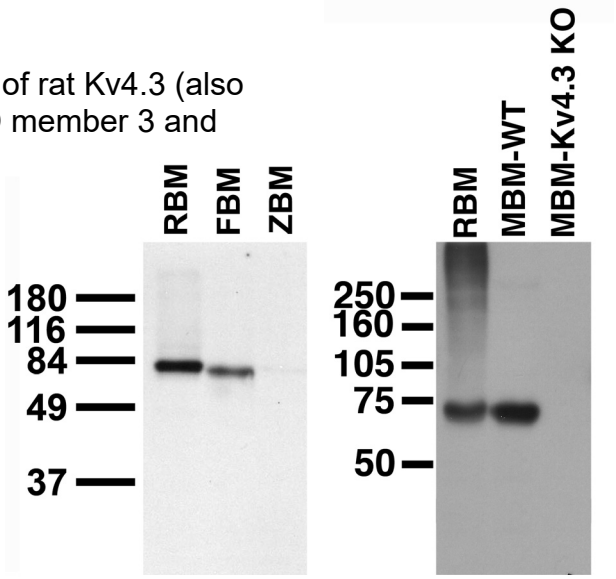
TC supe catalog # 73-017 (RRID:AB_10672856) & Pure IgG catalog # 75-017 (RRID:AB_2131966)

Immunogen:
Fusion protein amino acids 415-636 (cytoplasmic C- terminus) of rat Kv4.3 (also known as Potassium voltage-gated channel subfamily D member 3 and Kcnd3,accession number Q62897)
Human: 99% identity (221/222 amino acids identical)
Mouse: 99% identity (220/222 amino acids identical)
>40% identity with Kv4.2 and Kv4.1

Monoclonal antibody info:
Mouse strain: Balb/C
Myeloma cell: SP2/0
Mouse Ig Isotype: IgG1

NeuroMab Applications:
Immunoblotting,
Immunocytochemistry,
Immunohistochemistry

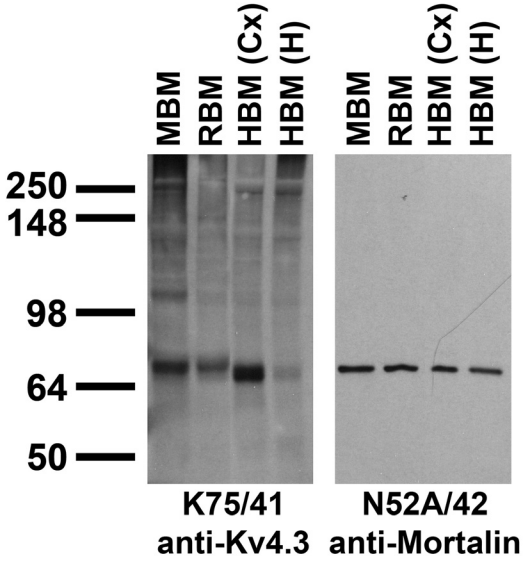




Species Reactivity: rat, human, mouse, *Xenopus*

Does not cross-react with Kv4.2

MW: 70 kDa



Top left: electron micrograph immunolabel in hippocampus via a pre-embedding immunogold method. Immunogold particles (arrows) are along extrasynaptic plasma membranes of dendritic shafts (Den) of interneurons establishing synaptic contacts with excitatory axon terminals (b). Scale bar = 500 nm. Image courtesy of Rafael Lujan (Universidad de Castilla-La Mancha).

Top right. immunoblot on RBM and membranes from wild-type (MBM-WT) and Kv4.3 knockout (MBM-Kv4.3-KO) mice. MBM samples courtesy of Jeanne Nerbonne (Washington University School of Medicine).

Top middle: immunoblot on brain membranes from rat (RBM), frog (FBM) & zebrafish (ZBM)

Middle: immunoblots on RBM, MBM and membranes from human cerebral cortex [HBM(Cx)] and hippocampus [HBM(H)].

Bottom: adult rat hippocampus immunohistochemistry