



Anti-GluA2/GluR2 glutamate receptor, NeuroMab clone L21/32

Immunogen:

Fusion protein amino acids 834-883 (EFCYKSRAEAKRMKVAKNPQNINPSSSQNSQNFATYKEGY NNYGIESVKI, cytoplasmic C-terminus) of rat GluA2/GluR2 (also known as Glutamate receptor 2, AMPA-selective glutamate receptor 2, Glutamate receptor ionotropic AMPA 2, GluR-B, GluR-K2 and Gria2, accession number P19491)

Mouse: 98% identity (49/50 amino acids identical)

Human: 98% identity (49/50 amino acids identical)

100% identity between Flip and Flop isoforms

>70% identity with GluA3/GluR3 and less identity with GluA1/GluR1 and GluA4/GluR4

Monoclonal antibody info:

Mouse strain: Balb/C

Myeloma cell: SP2/0

Mouse Ig Isotype: IgG1

NeuroMab Applications:

Immunoblot, Immunohistochemistry and Immunogold electron microscopy

Species Reactivity: rat, mouse, human

Does not cross-react with GluA1/GluR1, GluA3/GluR3 or GluA4/GluR4 (based on KO validation results)

MW: 90 kDa

Top left: immunoblot against crude membrane fractions from whole mouse (MBM) or rat (RBM) brain and from human cerebral cortex [HBM(Cx)] or hippocampus [HBM(H)] and probed with L21/32 (left) or N52A/42 (right) TC supe.

Top center: immunoblot of membranes from adult rat brain (RBM) and adult GluA2/GluR2 knockout (KO) and wild-type (WT) mouse hippocampi (MHM). Mouse samples courtesy of Richard Huganir (Johns Hopkins University).

Top right: adult rat brain membrane immunoblot

Middle: adult rat hippocampus immunohistochemistry

Bottom: electron micrograph of L21/32 hippocampal labelling using a post-embedding immunogold method. Immunoparticles (arrows) were observed in the postsynaptic densities of dendritic spines and dendritic shafts (Den) establishing asymmetrical synapses with axon terminals (b). Image courtesy of Rafael Lujan (Universidad de Castilla-La Mancha).

