

Product datasheet for 75-097

Grin2b Mouse Monoclonal Antibody [Clone ID: N59/20]

Product data:

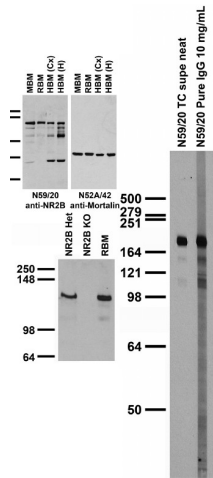
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|---------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | N59/20 |
| Applications: | IF, IHC, IP, WB |
| Recommend Dilution: | Immunoblot (IB) Immunohistochemistry (IHC) Immunoprecipitation (IP) Immunocytochemistry (ICC). |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Fusion protein amino acids 20-271 (extracellular N-terminus) of rat GluN2B/NR2B (also known as Glutamate/N-methyl D-aspartate/NMDA receptor subtype 2B or subunit epsilon 2, N-methyl-D-aspartate receptor subunit 3, NMDAR2B, NR3 and Grin2b, accession number Q00960). Mouse: 99% identity (250/252 amino acids identical). Human: 99% identity (250/252 amino acids identical). <50% identity with GluN2A/NR2A, GluN2C/NR2C and GluN2D/NR2D. |
| Specificity: | Does not cross-react with GluN2A/NR2A, GluN2C/NR2C or GluN2D/NR2D (based on KO validation results) |
| Formulation: | State: Purified |
| Gene Name: | glutamate ionotropic receptor NMDA type subunit 2B |
| Database Link: | Entrez Gene 24410 Rat |
| Synonyms: | GRIN2B, NMDA Receptor 2B |



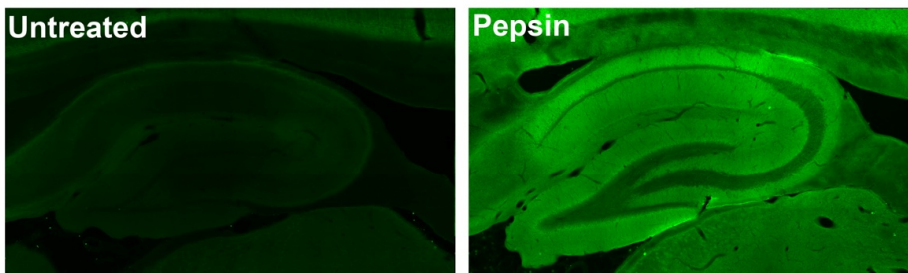
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Note: USERS will cite the UC Davis/NIH NeuroMab Facility in any publication(s) describing the research utilizing the MATERIALS. The suggested acknowledgment statement is as follows: "The monoclonal antibody _ was developed by and/or obtained from the UC Davis/NIH NeuroMab Facility, supported by NIH grant U24NS050606 and maintained by the Department of Neurobiology, Physiology and Behavior, College of Biological Sciences, University of California, Davis, CA 95616." Also, please include the complete clone number (e.g., N52A/42) and the Antibody Registry identification number (e.g., RRID:AB_2120479) to avoid ambiguity. [View Research License Agreement](#)

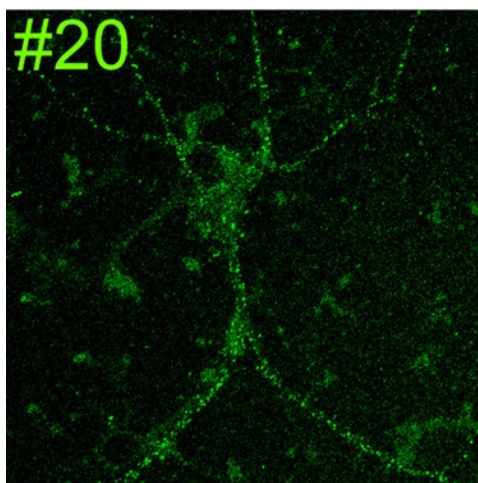
Product images:



Top middle: immunoblots on brain membranes prepared from whole rat (RBM, also top right figure) and mouse (MBM) brain, and from human cerebral cortex [HBM(Cx)] and hippocampus [HBM(H)] probed with N59/20 (left) or N52A/42 (right) TC supe.
Lower middle: immunoblot against rat brain membranes (RBM) and neuronal lysates from NR2B knockout (KO) and heterozygote (Het) mice. Samples courtesy of Ben Hall and Anirvan Ghosh (UCSD).



Adult rat hippocampus immunofluorescence under standard protocol (left) and with antigen retrieval via pepsin pretreatment (right).



Cultured rat hippocampal neuron immunofluorescence. Image courtesy of Anthonie Dunah (Harvard) and Morgan Sheng (MIT).