Mouse NR2B Monoclonal Antibody | anti-Grin2b antibody

NR2B Antibody: HRP

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA102936	**Mouse**	**Human, Rat, Mouse**	**Immunoprecipitation, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

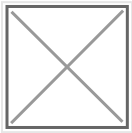
NR2B; Monoclonal Antibody; NR2B Antibody: HRP; NMDAR2B; hNR3; MGC142180; glutamate receptor subunit epsilon-2; NR3; anti-Grin2b antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	S59-36
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	1482
Applicable Applications for anti-Grin2b antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Conjugate	HRP
Storage Buffer	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES

WB (Western Blot)
Western Blot analysis of Rat brain membrane lysate showing detection of GluN2B/NR2B protein using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-36. Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



IHC (Immunohistochemisry)
Immunohistochemistry analysis using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-36. Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Filaggrin-like staining, and dermal staining.

WB (Western Blot)
Western Blot analysis of Human Embryonic kidney epithelial cell line (HEK293T) lysate showing detection of GluN2B/NR2B protein using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-36. Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody at 1:250.

ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GluN2B/NR2B Monoclonal Antibody, Clone S59-36. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20 degree C. Primary Antibody: Mouse Anti-GluN2B/NR2B Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Everything positive.

ADDITIONAL INFORMATION

Related Product Information for anti-Grin2b antibody	**Background Info:** Detects ~166kDa. No cross-reactivity against NR2A **Scientific Background:** NR2B containing receptors have been implicated in synaptic plasticity, memory formation and pain modulation (3). Studies suggest that the NR2B subunit of glutamate receptors may be potential targets for relieving pain; NR2B may be a probable target for anti-nociceptive drugs, and may also be useful as analgesics (4).
Product Categories/Family for anti-Grin2b antibody	Ion Channels; Neuroscience
References	1. Hille B. (2001) Ion Channels of Excitable Membranes, 3rd Ed., Sinauer Associated Inc.: Sunderland, MA USA. 2. www.iochannels.org 3. Zhuo M. (2009) Mol Brain. 2(1): 4 4. Gurwitz D, and Weizman A. (2002) Drug Discovery Today, 7(7): 403-406.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6980984
NCBI GeneID	24410
NCBI Accession #	NP_036706.1
NCBI GenBank Nucleotide #	NM_012574.1
UniProt Accession #	Q00960; Q62684
Molecular Weight	166,071 Da
NCBI Official Full Name	glutamate receptor ionotropic, NMDA 2B
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
NCBI Official Symbol	Grin2b
NCBI Official Synonym Symbols	GluN2B
NCBI Protein Information	glutamate receptor ionotropic, NMDA 2B; NR2B; NMDAR2B; glutamate receptor, ionotropic, NMDA2B; N-methyl D-aspartate receptor subtype 2B; glutamate [NMDA] receptor subunit epsilon-2
UniProt Protein Name	Glutamate receptor ionotropic, NMDA 2B
UniProt Gene Name	**Grin2b**
UniProt Synonym Gene Names	GluN2B; NMDAR2B; NR2B
UniProt Entry Name	NMDE2_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/nr2b-antibody-clone-s59-36-immunoprecipitation-immunohistochemistry-western-blot-elisa/102936