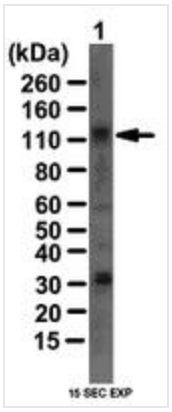
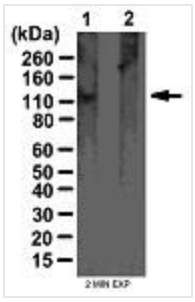
NR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

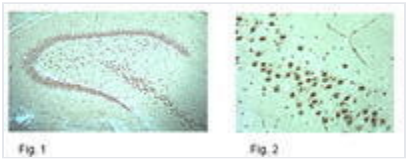
Product Name	NR1, Polyclonal Antibody
Full Product Name	NR1, Phosphorylated (Ser897) (N-methyl-D-aspartate Receptor subunit NR1, GRIN1, NMDA1, NMDAR1, NMD-R1, Glutamate receptor ionotropic N-methyl D-aspartate 1) (MaxLight 650)
Product Gene Name	anti-NR1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by affinity chromatography.
Specificity	Recognizes rat NR1 when phosphorylated at Ser897 at ~120kD. Species Sequence Homology: mouse and human, 100%
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	101,987 Da
3D Structure	ModBase 3D Structure for P35439
Immunogen	Synthetic peptide corresponding to rat NR1 phosphorylated at Ser897, conjugated to KLH.
Conjugate	MaxLight650
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-NR1 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-NR1 antibody	Immunohistochemistry (IHC), Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-NR1 antibody	IHC: 1:50 detected NR1 in normal rat hippocampus. WB: 1ug/ml detected NR1 in 10ug of rat brain microsomal tissue lysate. IP: 10ug from a previous lot precipitated NR1 from rat brain microsomal RIPA lysate. Applications are based on unconjugated antibody.
Related Product Information for anti-NR1 antibody	MBS6490482 is an antibody targeting NR1. Also known as NR1, Phosphorylated (Ser897) (N-methyl-D-aspartate Receptor subunit NR1, GRIN1, NMDA1, NMDAR1, NMD-R1, Glutamate receptor ionotropic N-methyl D-aspartate 1) (MaxLight 650). Reactive in Rat. Host: Rabbit.
Product References and Citations for anti-NR1 antibody	1. Molinuevo, J.L., et al. (2005). Am. J. Alzheimers Dis. Other Demen. 20:77-85. 2. Popescu, G., et al. (2004). Neuroscientist. 210:192-198.
Other Notes	Small volumes of anti-NR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



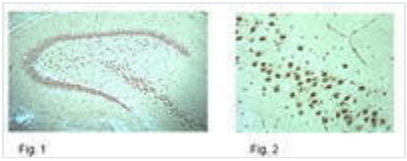
Western Blot (WB) of anti-NR1 antibody
Western Blot Analysis: Rat brain microsomal tissue lysate was probed with MBS629605 (1ug/ml). Proteins were visualized using an IgG (HRP) Donkey Anti-Rabbit and chemiluminescence detection system. Arrow indicates NR1 (~120kD).



Western Blot (WB) of anti-NR1 antibody
Western Blot Analysis: Lambda phosphatase untreated and treated rat brain microsomal tissue lysate was probed with MBS629605 (1ug/ml); untreated (lane 1) and treated (lane 2). Proteins were visualized using an IgG (HRP) Donkey Anti-Rabbit and chemiluminescence detection system. Arrow indicates NR1 (~ 120kD).



Immunohistochemistry (IHC) of anti-NR1 antibody
Paraffin-embedded normal rat hippocampus tissue was prepared using heat-induced epitope retrieval in citrate buffer, pH 6.0. Immunostaining was performed using a 1:50 dilution ofMBS629605. Reactivity was detected using the IHC-Select Detection Kit. Staining pattern appears to be restricted to the cytoplasm. Fig. 1 Low mag. and Fig. 2 High mag.



Immunoprecipitation (IP) of anti-NR1 antibody
Immunoprecipitation Analysis: 10ug MBS629605 immunoprecipitated NR1 from 500ug of rat brain microsomal RIPA lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NR1. It may not necessarily be applicable to this product.

NCBI GI #	396578144
NCBI GeneID	24408
NCBI Accession #	NP_001257531.1
UniProt Primary Accession #	P35439
UniProt Secondary Accession #	Q62646
UniProt Related Accession #	P35439
GenBank Nucleotide #	NM_001270602.1
NCBI Official Full Name	glutamate receptor ionotropic, NMDA 1 isoform 1b
NCBI Official Synonym Full Names	glutamate ionotropic receptor NMDA type subunit 1
NCBI Official Symbol	Grin1
NCBI Official Synonym Symbols	NR1; GluN1; NMDAR1
UniProt Protein Name	Glutamate receptor ionotropic, NMDA 1
UniProt Synonym Protein Names	Glutamate [NMDA] receptor subunit zeta-1; N-methyl-D-aspartate receptor subunit NR1; NMD-R1
Protein Family	Malate dehydrogenase
UniProt Gene Name	Grin1
UniProt Synonym Gene Names	Nmdar1; GluN1; NMD-R1
NCBI Protein Information	glutamate receptor ionotropic, NMDA 1

NCBI Summary for NR1	subunit of NMDA-preferring ionotropic glutamate receptors; may play a role in long term potentiation [RGD, Feb 2006]
UniProt Comments for NR1	NMDA receptor subtype of glutamate-gated ion channels possesses high calcium permeability and voltage-dependent sensitivity to magnesium. Mediated by glycine. Plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. It mediates neuronal functions in glutamate neurotransmission. Is involved in the cell surface targeting of NMDA receptors.
Research Articles on NR1	**1.** Interferon gamma (IFNgamma) enhance the amplitude of NMDA-induced inward currents in substantia gelatinosa neurons via microglial IFNgamma receptors and CCL2/CCR2 signaling.
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