



## Rabbit polyclonal antibody to N-methyl-D-aspartate receptor 1 (34-48): Affinity purified

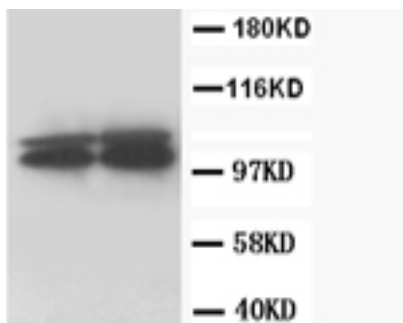
<b>Catalogue No.:</b>	R-1131-100
<b>Description:</b>	THIS PRODUCT HAS BEEN SUPERCEDED. PLEASE REFER TO THE "REPLACED BY" FIELD BELOW TO LOCATE THE CURRENT BIOSENSIS PRODUCT TO MEET YOUR RESEARCH NEEDS. N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA receptor channels are formed from heteromers composed of three different subunits: the key receptor zeta subunit NMDAR1 (GRIN1) with an NMDAR2 epsilon subunit: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C), or NMDAR2D (GRIN2D) and a third subunit: GRIN3A or GRIN3B. At least 7 isoforms of NMDAR1 are produced by alternative splicing.
<b>Replaced by:</b>	R-1747-100
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 $\mu$ g
<b>Antigen:</b>	A synthetic peptide (STRKHEQMFREAVNQ) corresponding to a region (34-48) from rat N-methyl-D-aspartate receptor 1 (NMDAR1). To enhance the immunological response, this peptide was coupled to carrier protein BSA.
<b>Other Names:</b>	Glutamate [NMDA] receptor subunit zeta-1; N-methyl-D-aspartate receptor subunit NR1; NMD-R1; N-methyl-D-aspartate receptor; Grin1; Nmdar1;
<b>Accession:</b>	P35439 NMDZ1_RAT;
<b>Produced in:</b>	Rabbit
<b>Purity:</b>	Affinity purified on antigen column
<b>Applications:</b>	Immunohistochemistry (IHC) and Western Blotting (WB). A concentration of 1.0 $\mu$ g/ml is recommended for WB. Rat NMDAR1 (isoform A) has a predicted length of 938 residues and molecular weight of 106 kDa. A concentration of 2.0 $\mu$ g/ml is recommended to detect NMDAR1 in formalin fixed and paraffin embedded tissues. Heat mediated antigen retrieval is required. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB and IHC against the antigen.
<b>Cross-reactivity:</b>	Human; Rat; predicted to react with mouse due to sequence homology;
<b>Form:</b>	Lyophilised with 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub>
<b>Reconstitution:</b>	Reconstitute in 100 $\mu$ l of sterile distilled water to achieve an antibody concentration of 1 mg/ml. Centrifuge to remove any insoluble material.
<b>Storage:</b>	At least 12 months after purchase at 2 - 4 $^{\circ}$ C (lyophilized formulations). After reconstitution, aliquot and store at -20 $^{\circ}$ C for a higher stability. Avoid freeze-thaw cycles.
<b>Expiry Date:</b>	12 months after purchase

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Western blot analysis of rabbit polyclonal antibody to N-methyl-D-aspartate receptor 1 (1-2  $\mu$ g/ml) in rat brain tissue lysate. Secondary HRP conjugated goat anti-rabbit IgG antibody (working dilution: 1:3000-10000).

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