bs-23343R **[Primary Antibody]**

NMDAR1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2902 **SWISS:** Q05586

Target: NMDAR1

Immunogen: KLH conjugated synthetic peptide derived from human NMDAR1: 831-930/938. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene is a critical subunit of N-methyl-D-aspartate receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. These subunits play a key role in the plasticity of synapses, which is believed to underlie memory and learning. Cell-specific factors are thought to control expression of different isoforms, possibly contributing to the functional diversity of the subunits. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2008]

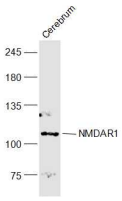
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Cow, Chicken, Dog)

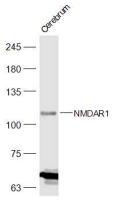
Predicted MW.: 103 kDa

Subcellular Location: Cell membrane

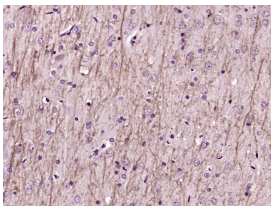
VALIDATION IMAGES



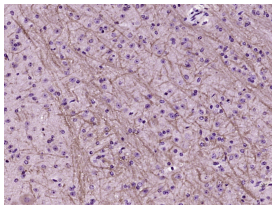
Sample: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-NMDAR1 (bs-23343R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 103 kD Observed band size: 113 kD



Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-NMDAR1 (bs-23343R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 103 kD Observed band size: 113 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NMDAR1) Polyclonal Antibody, Unconjugated (bs-23343R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen

peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NMDAR1) Polyclonal Antibody, Unconjugated (bs-23343R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

SELECTED CITATIONS

- **[IF=7.7]** Gong Chen. et al. SETD2 deficiency in peripheral sensory neurons induces allodynia by promoting NMDA receptor expression through NFAT5 in rodent models. INT J BIOL MACROMOL. 2024 Oct;:136767 WB ;Rat. 39476923
- **[IF=4]** Yuan-yuan Zhang. et al. Modified Zhenwu Tang Delays Chronic Renal Failure Progression by Modulating Oxidative Stress and Hypoxic Responses in Renal Proximal Tubular Epithelial Cells. HELIYON. 2024 五月 15 IHC,WB ;Rat. 38803876
- **[IF=2.1]** Xiangdong Meng. et al. Naringin ameliorates memory deficits and exerts neuroprotective effects in a mouse model of Alzheimer's disease by regulating multiple metabolic pathways. Mol Med Rep. 2021 May;23(5):1-13 WB ;Mouse. 33760152
- **[IF=0.6]** Jingjing Zhang. et al.Liuwei dihuang pill regulates NMDARs/CaMKII to ameliorate cognitive dysfunction in neuropsychiatric systemic lupus erythematosus mice.CLINICAL TRADITIONAL MEDICINE AND PHARMACOLOGY. Western blot ;Mouse. 10.1016/j.ctmp.2025.200199