bs-23343R

[Primary Antibody]

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NMDAR1 Rabbit pAb

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 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. Cellspecific 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: Mouse, Rat

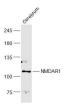
(predicted: Human, Cow,

Chicken, Dog)

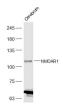
Predicted MW.: 103 kDa

Subcellular Location: Cell membrane

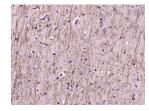
- VALIDATION IMAGES -



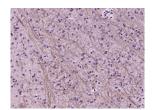
Sample: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-NMDAR1 (bs-23343R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 103 kD Observed band size: 113 kD



Sample: Cerebrum (Mouse) Lysate at 40 ug Primary: Anti-NMDAR1 (bs-23343R) at 1/300 dilution Secondary: IRDve800CW 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.
- [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