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35-1617: Polyclonal Antibody to NMDAR1 (Ab-897)

Clonality :	Polyclonal
Application :	IF
Reactivity :	Human,Mouse,Rat
Gene :	GRIN1
Gene ID :	2902
Uniprot ID :	Q05586
Format :	Purified
Alternative Name :	GLURZ1, GRIN1, NMD-R1, NMDZ1, NMZ1
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.895~899 (R-S-S-K-D) derived from Human NMDAR1.

Description

NMDA receptors are members of the ionotropic class of glutamate receptors, which also includes Kainate and AMPA receptors. NMDA receptors consist of NR1 subunits combined with one or more NR2 (A-D) or NR3 (A-B) subunits. The ligand-gated channel is permeable to cations including Ca2+, and at resting membrane potentials NMDA receptors are inactive due to a voltage-dependent blockade of the channel pore by Mg2+. NMDA receptor activation, which requires binding of glutamate and glycine, leads to an influx of Ca2+ into the postsynaptic region where it activates several signaling cascades, including pathways leading to the induction of long-term potentiation (LTP) and depression (LTD). NMDA receptors have a critical role in excitatory synaptic transmission and plasticity in the CNS. They govern a range of physiological conditions including neurological disorders caused by excitotoxic neuronal injury, psychiatric disorders and neuropathic pain syndromes.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 120kd, Immunofluorescence: 1:100~1:200

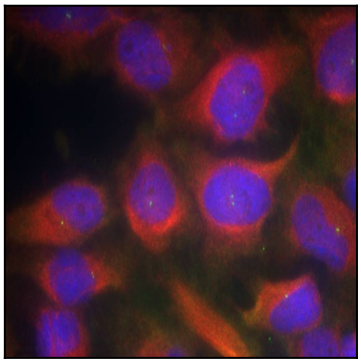

Figure 1: Immunofluorescence staining of methanol-fixed Hela cells using NMDAR1(Ab-897) Antibody 35-1617 .