

GluN 1

Cat.No. 114-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 35 to 53 from rat GluN1 (UniProt Id: P35439)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	114 003, 114 103
Remarks	This control peptide consists of the synthetic peptide (aa 35-53 of rat GluN 1) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

**TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

GluNs (NMDA-receptors) represent a class of glutamate receptors that are of central importance in synaptic plasticity. Multiple NMDA receptor subtypes exist: **GluN 1** and GluN 2 A-D. GluN 1 is the most important as it is required for activity. NMDA-receptors allow Ca²⁺ influx and are thought to trigger Ca²⁺ dependent postsynaptic processes involved in long term potentiation and depression.

Selected General References

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Differential assembly of coexpressed glutamate receptor subunits in neurons of rat cerebral cortex.

Brose N, Huntley GW, Stern-Bach Y, Sharma G, Morrison JH, Heinemann SF

The Journal of biological chemistry (1994) 269(24): 16780-4.

Molecular cloning and characterization of the rat NMDA receptor.

Moriyoshi K, Masu M, Ishii T, Shigemoto R, Mizuno N, Nakanishi S

Nature (1991) 354(6348): 31-7.