

DATASHEET

NMDAR1 (Phospho-S896) Rabbit Polyclonal Antibody

CAT. NO. APA09903

KEY FEATURES

Target	NMDAR1 (Phospho-S896)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Dog	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Component of N-methyl-D-aspartate (NMDA) receptors (NMDARs) that function as heterotetrameric, ligand-gated cation channels with high calcium permeability and voltage-dependent block by Mg(2+) . NMDARs participate in synaptic plasticity for learning and memory formation by contributing to the long-term potentiation (LTP) . Channel activation requires binding of the neurotransmitter L-glutamate to the GluN2 subunit, glycine or D-serine binding to the GluN1 subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+) . NMDARs mediate simultaneously the potassium efflux and the influx of calcium and sodium .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:100

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to NMDAR1 (Phospho-S896)
Specificity	Recognizes endogenous levels of NMDAR1 protein only when phosphorylated at S896.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S896 of human NMDAR1 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 105 kD; Observed: 105 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	NMDAR1; Glutamate receptor ionotropic, NMDA 1; GluN1; Glutamate [NMDA] receptor subunit zeta-1; N-methyl-D-aspartate receptor subunit NR1; NMD-R1
Gene Symbol	GRIN1
Entrez Gene	2902(Human); 14810(Mouse); 24408(Rat)
SwissProt	Q05586(Human); P35438(Mouse); P35439(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

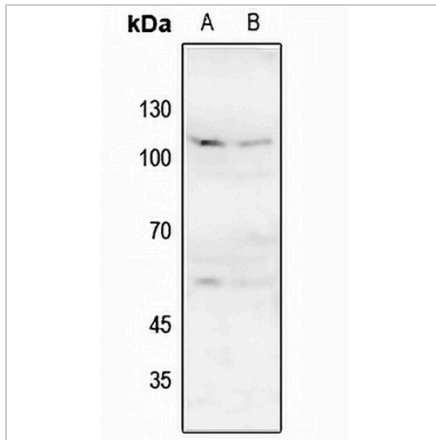
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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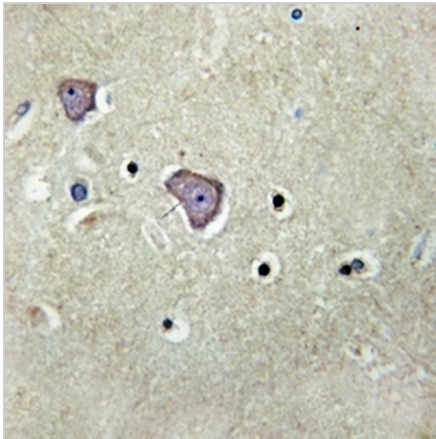
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DATA



Western blot analysis of NMDAR1 (Phospho-S896) expression in HeLa (A), HGC27 (B) whole cell lysates. (Predicted band size: 105 kD; Observed band size: 105 kD)



Immunohistochemical analysis of NMDAR1 (Phospho-S896) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.