

## Product datasheet for **AP51953PU-N**

### NMDAR2A (GRIN2A) (C-term) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western Blot:</b> 1/1000. <b>Flow Cytometry:</b> 1/10-1/50. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 1291-1318 amino acids from the C-terminal region of Human NMDA Receptor 2A.
Specificity:	This antibody recognizes Human NMDA Receptor 2A (C-term).
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A column, followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glutamate ionotropic receptor NMDA type subunit 2A
Database Link:	<a href="#">Entrez Gene 2903 Human Q12879</a>



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**Background:**

N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate-gated ion channels. These receptors have been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of the key receptor subunit NMDAR1 (GRIN1) and 1 or more of the 4 NMDAR2 subunits: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C) and NMDAR2D (GRIN2D). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

**Synonyms:**

NMDAR2A, GRIN2A, NR2A

**Note:**

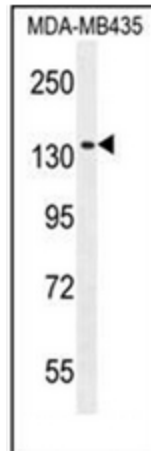
**Molecular Weight:** 165283 Da

**Protein Families:**

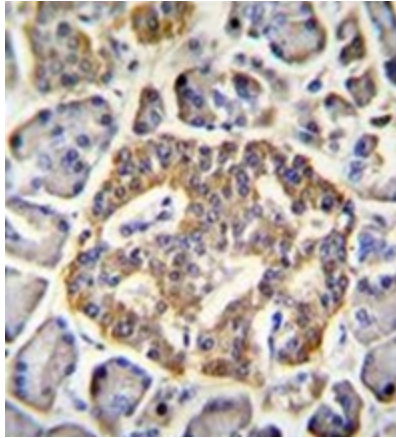
Druggable Genome, Ion Channels: Glutamate Receptors, Ion Channels: Sodium, Transmembrane

**Protein Pathways:**

Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Calcium signaling pathway, Long-term potentiation, Neuroactive ligand-receptor interaction, Systemic lupus erythematosus

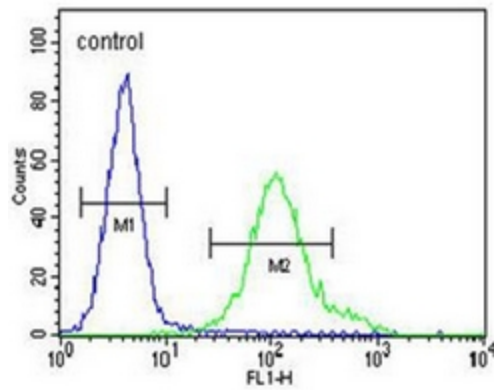
**Product images:**

Western blot analysis of NMDA Receptor 2A Antibody (C-term) in MDA-MB435 cell line lysates (35ug/lane).



Immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue reacted with NMDA Receptor 2A Antibody (C-term) followed by peroxidase conjugation of the secondary antibody and DAB staining.

### MDA-MB435



Flow cytometric analysis of MDA-MB435 cells using NMDA Receptor 2A Antibody (C-term) (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.