

Anti-NMDAR2C Antibody
Rabbit polyclonal antibody to NMDAR2C
Catalog # AP61362**Specification**

Anti-NMDAR2C Antibody - Product Information

Application	WB, IH
Primary Accession	Q14957
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	134209

Anti-NMDAR2C Antibody - Additional Information**Gene ID** 2905**Other Names**

NMDAR2C; Glutamate receptor ionotropic NMDA 2C; GluN2C; Glutamate [NMDA] receptor subunit epsilon-3; N-methyl D-aspartate receptor subtype 2C; NMDAR2C; NR2C

Target/Specificity

Recognizes endogenous levels of NMDAR2C protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200)

IH~~WB (1/500 - 1/1000), IH (1/50 - 1/200)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-NMDAR2C Antibody - Protein Information**Name** GRIN2C**Synonyms** NMDAR2C**Function**

Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit, glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+) (PubMed:26875626). Sensitivity to glutamate and channel kinetics depend on the

subunit composition (Probable). Plays a role in regulating the balance between excitatory and inhibitory activity of pyramidal neurons in the prefrontal cortex. Contributes to the slow phase of excitatory postsynaptic current, long-term synaptic potentiation, and learning (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Postsynaptic cell membrane; Multi-pass membrane protein

Tissue Location

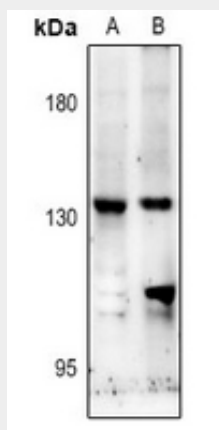
Mainly expressed in brain with predominant expression is in the cerebellum, also present in the hippocampus, amygdala, caudate nucleus, corpus callosum, subthalamic nuclei and thalamus. Detected in the heart, skeletal muscle and pancreas

Anti-NMDAR2C Antibody - Protocols

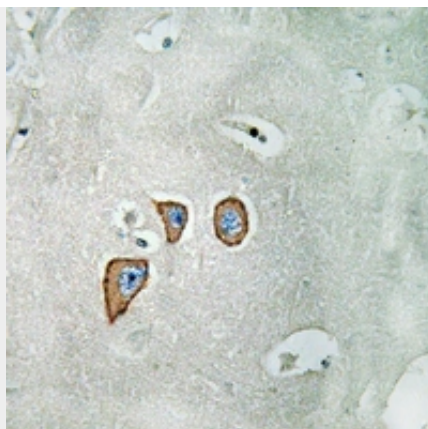
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-NMDAR2C Antibody - Images



Western blot analysis of NMDAR2C expression in U87MG (A), Panc1 (B) whole cell lysates.



Immunohistochemical analysis of NMDAR2C 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.

Anti-NMDAR2C Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NMDAR2C. The exact sequence is proprietary.