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Rabbit Anti-NR3A
Polyclonal Antibody

CATALOG NUMBER:	07-356	**QUANTITY:**	200 µg
LOT NUMBER:		**CONCENTRATION:**	1 mg/mL

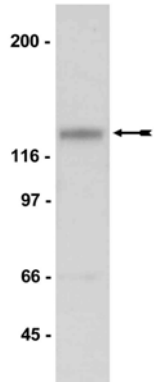
BACKGROUND: N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA receptor channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of three different subunits: NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The NR2 subunit acts as the agonist binding site for glutamate. This receptor is the predominant excitatory neurotransmitter receptor in the mammalian brain.

SPECIFICITY: Recognizes NR3A, Mr ~130kDa.

IMMUNOGEN: KLH-conjugated, synthetic peptide corresponding to amino acids 1098-1113 (SRKTELEEYQKTNRTC) of rat NR3A. The immunizing sequence has 15/16 identical amino acids in mouse

APPLICATIONS: Western Blot: 0.5-2.0 mg/ml of this lot detected NR3A in a rat brain microsomal protein preparation.

Western blot Analysis: Representative lot data.
Rat brain microsomal protein preparation was resolved by electrophoresis, transferred to nitrocellulose and probed with anti-NR3A (0.5mg/ml). Proteins were visualized using a goat anti-rabbit secondary antibody conjugated to HRP and a chemiluminescence detection system. Arrow indicates NR3A (130kDa).



SPECIES REACTIVITY: Rat. Predicted to cross-react with mouse and human based on sequence homology.

FORMAT: Protein A purified

PRESENTATION: 200 µg of protein A purified rabbit IgG in 200 µl of 0.1M Tris-glycine, pH 7.4, 0.15M NaCl, 0.05% Sodium azide before the addition of glycerol to 30%. Liquid at -20°C.

STORAGE/HANDLING: Stable for 2 years at -20°C from date of shipment. For maximum recovery of product, centrifuge the vial prior to removing the cap.

REFERENCES:

1. Sasaki, Y., *et al.,* J. Neurophysiol. **87**: 2052-2063, 2002.
2. Chatterton, J., *et al.,* Nature **415**: 793-798, 2002.
3. Das, S., *et al.,* Nature **393**: 377-381, 1998.

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Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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