CHEMICON® INTERNATIONAL
a Serologicals® Company

RABBIT ANTI-NMDA RECEPTOR 2A/B AFFINITY PURIFIED POLYCLONAL ANTIBODY

CATALOG NUMBER: AB1548

LOT NUMBER:

QUANTITY: 50 μg

SPECIFICITY: Western blot analysis of transfected cells shows the antibody recognizes both NR2A and NR2B subunits equally. There may be a very slight recognition of NR2C and NR2D. Western blot analysis of rat brain shows a single band comigrating with NMDAR2A and NMDAR2B expressed in transfected cells. AB1548 has also been used effectively in Western blot of the membrane fraction of rabbit cortex and avian brain homogenates. No cross-reaction is seen with NMDAR1 or other glutamate receptor subunits.

IMMUNOGEN: Synthetic peptide (LNSCSNRRVYKKMPSIESDV) corresponding to the C-terminus of rat NMDAR2A receptor subunit conjugated to BSA.

APPLICATIONS: Western blot analysis can be done at final concentrations of 0.25-0.5 μg/mL

AB1548 can be used for immunocytochemistry using paraformaldehyde or paraformaldehyde/glutaraldehyde fixed tissue with light and electron microscopy. Cryostat and microtome sections can be used with or without Triton X-100 treatment. Final concentrations recommended are 0.5-1.0 μg/mL.

The antibody can be used for immunopreciptation of detergent solubilized receptor from brain or transfected cells. For most cases 5 μg of antibody is used with immobilized Protein A.

Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Human, rat, mouse, avian and rabbit.

FORMAT: Affinity purified using the immunogen peptide.

PRESENTATION: Lyophilized from PBS containing 1% BSA.

STORAGE/HANDLING: Maintain lyophilized material at 2-8°C or -20°C for up to 12 months after date of receipt. Reconstitute to **500 μL** with sterile distilled water. Store reconstituted material frozen (-20°C or -80°C) in undiluted aliquots for up to six months. Avoid repeated thawing and refreezing. Diluted antibody containing 0.1% sodium azide for Western blot analysis can be stored for several weeks and reused repeatedly.

For research use only; not for use as a diagnostic.

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233
Australia +61 3 9839 2000 • Germany +49-6192-207300 • ISO Registered worldwide
www.chemicon.com • custserv@chemicon.com • techserv@chemicon.com

CHEMICON®
INTERNATIONAL
a Serologicals® Company

REFERENCES:

1. *J. Neuroscience* (1994) **14**:6102-6120.
2. *J. Neuroscience* (1996) **16**:2172-2178
3. *NeuroReport* (1996) **7**:1029-1035.
4. *Developmental Brain Research* (1996) **94**:246-250.
5. *J. Neuroscience* (1997) **17**:1604-1615.
6. *J. Cerebral Blood Flow and Metabolism* (1997) **17**:290-300.
7. *PNAS.USA* (1997) **94**:8830-8835.
8. *J. Neuroscience* (1998) **18**:625-633.
9. *Neuroscience Letters* (1998) **255**:25-28.
10. *J Cellular Biochemistry* (1999) **72**:135-144.
11. *Experimental Neurology* (1999) **159**:409-418.
12. Strack, S., et al., *J Biological Chemistry* (2000) **275**:23798-23806.
13. Garcia-Gallo, M., et al., *Biochem. J.* (2001) **356**:539-547.
14. Cepeda, C. et al., *J Neurosci. Res.* (2001) July 6th issue.
15. Burette, A. et al., *J Neuroscience* (2002) **22**:8961-8970.
16. Corbett, E., et al., *Autonomic Neuroscience: Basic and Clinical* (2003) **105**:105-117.
17. Gascon, S. et al., *J Neurosci. Res.* (2007) **85**:1713-1723.

CHEMICON has a complete listing of our affinity purified second antibodies and conjugates listed in our Immunological Reagents Catalog. CHEMICON Technical Service would be happy to assist you in selecting an appropriate antibody for your system. Call our Technical Service Department for additional information now at 1-800-437-7500.

For research use only; not for use as a diagnostic.

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233
Australia +61 3 9839 2000 • Germany +49-6192-207300 • ISO Registered worldwide
www.chemicon.com • custserv@chemicon.com • techserv@chemicon.com