

**RABBIT ANTI-GLUTAMATE RECEPTOR 2  
AFFINITY PURIFIED  
POLYCLONAL ANTIBODY**

- CATALOG NUMBER:** AB1768-25UG
- LOT NUMBER:**
- QUANTITY:** 25 µg
- SPECIFICITY:** Glutamate Receptor 2 (GluR2). Western blot analysis of transfected cells shows that the antibody is selective for GluR2. Immunocytochemical analysis of transfected cells shows no cross reaction with GluR1, GluR3 or GluR4. On Western blots of rat brain, a single band at  $M_r = 108,000$  is detected.
- IMMUNOGEN:** Synthetic peptide from rat GluR2 conjugated to BSA through a cysteine added to the C-terminus of the peptide.
- APPLICATIONS:** Can be used for immunohistochemistry using paraformaldehyde or paraformaldehyde/glutaraldehyde fixed tissue with light and electron microscopy. Cryostat and vibratome sections can be used with or without Triton X-100 treatment. Final antibody concentrations recommended are 0.5-1.0 µg/mL.  
Western blot analysis can be done at final concentrations of 0.5 µg/mL.  
The antibody immunoprecipitates 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 REACTIVITY:** Rat. The amino acid sequence of glutamate receptors are highly conserved among different species. It is probable that AB1768-25UG may work on many different species. However, the specificity of the antibody should be tested by Western blot in all species other than rat.
- FORMAT:** AB1768-25UG was affinity purified using the immunogen peptide. The antibody was also passed through a resin containing the corresponding region of GluR3 to remove any possible antibodies that recognize GluR3.
- PRESENTATION:** Lyophilized from PBS containing 1% BSA. Contains no preservative.
- STORAGE/HANDLING:** Maintain lyophilized material at +2-8°C or -20°C for up to twelve months after date of receipt. Reconstitute with **50 µL** of sterile distilled water for a concentration of 500 µg/mL. Store reconstituted material frozen (-20°C or preferably at -80°C) in undiluted aliquots for up to six months. Avoid repeated freeze/thaw cycles. Diluted antibody containing 0.1% sodium azide for Western blot analysis can be stored for several weeks at +2-8°C and reused repeatedly.
- REFERENCES:** Petralia et al., *J. Comparative Neurology* **385**:456-476 (1997)  
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Wong-Riley, M. and P. Jacobs, *Visual Neuroscience* (2002) **19**:563-573.  
Corbett, E., et al., *Autonomic Neuroscience: Basic and Clinical* (2003) **105**:105-117.  
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