

## Anti-Alpha 1 GABA-A Receptor Monoclonal Antibody

### ORDERING INFORMATION

Catalog No.: 56467 (clone S95-35)  
Size: 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

### BACKGROUND

GABA is the major inhibitory neurotransmitter in the vertebrate brain. GABA receptors consist of five subunits that form a chloride ion channel. Subunit families  $\alpha$ ,  $\beta$ ,  $\gamma$ , and  $\delta$  have been studied extensively;  $\pi$  and  $\epsilon$  have been identified recently. Studies of recombinant GABA receptors have shown that individual subunits and their subtypes confer different sensitivities to GABA receptor modulators. Subunit subtypes are differentially expressed throughout development and in different CNS regions, reducing the total number of possible isoforms that can be formed in different brain regions and in individual cells.

### SPECIFICATION SUMMARY

**Antigen:** Fusion protein corresponding to aa 355-394 of mouse Alpha 1 GABA-A receptor (accession no. P62812).

**Host Species:** Mouse

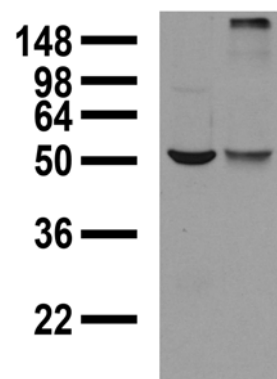
**Antibody Class:** IgG2a

### SPECIFICITY

This antibody recognizes human, mouse, and rat Alpha 1 GABA-A receptor. It does not cross-react with Alpha 2 or Alpha 3 GABA-A receptors.

### APPLICATIONS

**Immunoblotting:** use at 1-10ug/ml. A band of ~55kDa is detected.



Adult rat brain membrane (left) and transiently-transfected COS cell extracts (right) probed with #56467

**Immunohistochemistry and**

**Immunocytochemistry:** use at 0.1-1ug/ml

**Immunofluorescence:** use at 1-10ug/ml

These are recommended concentrations. User should determine optimal concentrations for their application.

**Positive control:** Rat brain lysate.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*