

## EAAC1 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 56520 (clone S180-41)  
**Size:** 100ug in PBS (1mg/ml), pH 7.4,  
50% glycerol, 0.09% sodium azide.  
Purified by Protein G affinity  
chromatography.

### BACKGROUND

Excitatory amino-acid carrier 1 (EAAC1) is a high-affinity Na<sup>+</sup>-dependent L-glutamate/D,L-aspartate cell membrane transport protein. It is expressed in brain as well as in several non-nervous system tissues. In brain, EAAC1 is the primary neuronal glutamate transporter. It has a polarized distribution in cells and functions mainly perisynaptically to transport glutamate from the extracellular environment. In the kidney it is involved in renal acidic amino acid reabsorption and amino acid metabolism. EAAC1-associated protein GTRAP3-18 may be important in regulating the metabolic function of EAAC1.

### SPECIFICATION SUMMARY

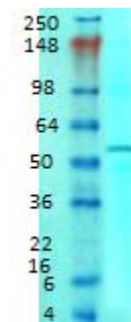
**Antigen:** Fusion protein corresponding to aa 1-524 (full-length) of human EAAC1 (accession no. NP\_004161.4).  
**Host Species:** Mouse  
**Antibody Class:** IgG1

### SPECIFICITY

This antibody recognizes human EAAC1.

### APPLICATIONS

*Immunoblotting:* use at 1-5ug/ml. A band of ~60kDa is detected.



Immunoblot on rat brain membranes.

These are recommended concentrations. Enduser should determine optimal concentrations for their applications.  
*Positive control:* rat brain membranes.

### DILUTION INSTRUCTIONS

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

### STORAGE AND STABILITY

This product is stable for at least 1 year at -20°C. Freeze in multiple aliquots to avoid repeated freeze-thaw cycles.

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