

## SNAT1 Neurotransmitter Transporter Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 56522 (clone S104-32)  
**Size:** 100ug in PBS (1mg/ml), pH 7.4,  
50% glycerol, 0.09% sodium azide.  
Purified by Protein G affinity  
chromatography.

### BACKGROUND

The sodium-coupled neutral amino acid transporters (SNAT) include System A subtypes SNAT1, SNAT2, and SNAT4 and System N subtypes SNAT3 and SNAT5. These transporters are essential for uptake of nutrients, energy production, metabolism, detoxification, and the cycling of neurotransmitters. SNAT1 is responsible for transport of glutamine and may be involved in the generation of glutamate in the retina. SNAT1 is found in heart, brain, and placenta, and expression levels are high in certain neuronal populations in the central nervous system.

### SPECIFICATION SUMMARY

**Antigen:** Fusion protein corresponding to aa 1-63 (cytoplasmic N-terminus) of rat SNAT1 (accession no. NP\_620187.1).

**Host Species:** Mouse

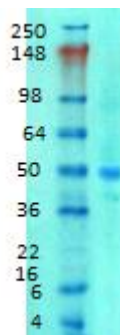
**Antibody Class:** IgG1

### SPECIFICITY

This antibody recognizes human, mouse, and rat SNAT1.

### APPLICATIONS

*Immunoblotting:* use at 1-2ug/ml. A band of ~50kDa is detected.



Immunoblot on rat brain membranes.

*Immunohistochemistry:* use at 1-5ug/ml. These are recommended concentrations. Enduser should determine optimal concentrations for their applications.

*Positive control:* Rat neocortical neurons cultured under amino acid starvation conditions.

### 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.*