

## VGlut1 Transporter Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 56514 (clone S28-9)  
**Size:** 100ug in PBS (1mg/ml), pH 7.4,  
50% glycerol, 0.09% sodium azide.  
Purified by Protein G affinity  
chromatography.

### BACKGROUND

VGlut1 is expressed in a subset of glutamate neurons where it transports glutamate into native synaptic vesicles from the brain. Glutamate transport by VGlut1 is saturated with a K(m) of approximately 2mM. Whereas plasma membrane glutamate transporters recognize both aspartate and glutamate as substrates, VGlut1 recognizes only glutamate.

### SPECIFICATION SUMMARY

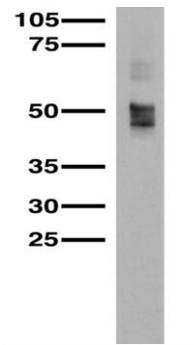
**Antigen:** Fusion protein corresponding to aa 493-560 (cytoplasmic C-terminus) of rat VGlut1 (accession no. NP\_446311).  
**Host Species:** Mouse  
**Antibody Class:** IgG1

### SPECIFICITY

This antibody recognizes human, mouse, and rat VGlut1. It does not cross-react with VGlut2.

### APPLICATIONS

*Immunoblotting:* use at 1-2ug/ml. A band of ~52kDa is detected.



Adult rat brain immunoblot

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