**Data Sheet**

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>100 µl antiserum, lyophilized. For reconstitution add 100 µl H₂O, then aliquot and store at -20°C until use.</th>
</tr>
</thead>
</table>
| Applications           | WB: 1 : 5000 (AP staining)  
IHC: yes  
ICC: yes  
FACS: yes |
| Immunogen              | Recombinant protein corresponding to AA 456 to 560 from rat VGLUT1 (UniProt Id: Q62634) |
| Reactivity             | Reacts with: rat (Q62634), mouse (Q3TX44), human (Q9P2U7), cow. Other species not tested yet. |
| Specificity            | Specific for VGLUT 1. (K.O. verified) |
| matching control       | 135-3P |
| Remarks                | VGLUT 1 aggregates after boiling, making it necessary to run SDS-PAGE only with non-boiled samples. |

**Selected References SYSY Antibodies**

Quantitative comparison of glutamatergic and GABAergic synaptic vesicles unveils selectivity for few proteins including MAL2, a novel synaptic vesicle protein.


Expression of vesicular glutamate transporters VGLUT1 and VGLUT2 in the rat dental pulp and trigeminal ganglion following inflammation.

Yang ES, Jin MU, Hong JH, Kim YS, Choi SY, Kim TH, Cho YS, Bae YC  

Critical role for piccolo in synaptic vesicle retrieval.

Ackermann F, Schink KO, Bruns C, Izsák Z, Hamra FK, Rosenmund C, Garner CC  
eLife (2019) 8. WB, IHC, tested species: rat

NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The vesicular glutamate transporter 1 (VGLUT 1) is commonly used as a brain specific phosphate transporter. Like the related VGLUT 2, VGLUT 1 is both necessary and sufficient for uptake and storage of glutamate and thus comprises the sole identified as a brain specific phosphate transporter. Like the related VGLUT 2, VGLUT 1 is both vesicular transporter and glutamatergic synapses.

VGLUT 1 and VGLUT 2 show complementary expression patterns. Together, they are currently the best markers for glutamatergic nerve terminals and glutamatergic synapses.  

VGLUT 1 aggregates after boiling, making it necessary to run SDS-PAGE only with non-boiled samples.  

TO BE USED IN VITRO / FOR RESEARCH ONLY  
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS