**Selected References SYSY Antibodies**

Distribution of SNAP25, VAMP1 and VAMP2 in mature and developing deep cerebellar nuclei after estrogen administration.
Manca P, Mameli O, Caria MA, Torrejón-Escribano B, Blasi J

Synaptic and vesicular coexistence of VGLUT and VGAT in selected excitatory and inhibitory synapses.

Telencephalic neurons monosynaptically link brainstem and forebrain pretorium networks necessary for song.
Roberts TF, Klein ME, Kubke MF, Wild JM, Mooney R

Dorsal CA1 interneurons contribute to acute stress-induced spatial memory deficits.
Neuropharmacology (2018) :. [IHC; tested species: mouse]

Not To Be Used In Vitro / For Research Only

**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The vesicular glutamate transporter 1 VGLUT 1, also referred to as BNIPI and SLC17A7, was originally identified 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 determinant for a glutamatergic phenotype. Both VGLUTs are different from the plasma membrane transporters in that they are driven by a proton electrochemical gradient across the vesicle membrane.

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

**Cat.No. 135 511; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)**

**Data Sheet**

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>100 µg purified IgG, lyophilized. For reconstitution add 100 µl H2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.</th>
</tr>
</thead>
</table>
| Applications           | **WB**: 1 : 100 to 1 : 1000 (AP staining)  
**IP**: yes  
**ICC**: 1 : 100 up to 1 : 500  
**IHC**: 1 : 100  
**IHC-P/FFPE**: 1 : 100 up to 1 : 500 |
| Clone                  | 317G6 (κ light chain) |
| Immunogen             | Recombinant protein corresponding to AA 456 to 560 from rat VGLUT1 (UniProt Id: Q62634) |
| Epitope                | Epitope: AA 542 to 560 from rat VGLUT1 (UniProt Id: Q62634) |
| Reactivity            | Reacts with: rat (Q62634), mouse (Q3TXX4).  
Other species not tested yet. |
| Specificity            | Specific for VGLUT 1. (K.O. verified) |
| matching control       | 135-3P |
| Remarks                | This antibody is recommended for ICC and IHC. It yields weaker signals in Western blot experiments than cat. no. 135 311, 135 011 and the polyclonal antibodiesVGLUT 1 aggregates after boiling, making it necessary to run SDS-PAGE with non-boiled samples. |