VGAT cytoplasmic domain

Cat.No. 131 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

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 : 1000 up to 1 : 2000 (AP staining)  
                         | IP: not tested yet  
                         | ICC: 1 : 500 up to 1 : 1000  
                         | IHC: 1 : 200 up to 1 : 500  
                         | IHC-P/FFPE: yes  
                         | EM: yes |
| ImmunoGen              | Recombinant protein corresponding to AA 2 to 115 from rat VGAT (UniProt Id: O35458) |
| Reactivity             | Reacts with: rat (O35458), mouse (O35633), zebrafish. Other species not tested yet. |
| Specificity            | Specific for VGAT. (K.O. verified) |
| matching control       | 131-0GP |
| Remarks                | VGAT 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.

ICC, IHC, EM

Development of dissociated cryopreserved rat cortical neurons in vitro.

Scholck SC, Jolin-Dahel KS, Scholk PC, Theiss S, Arbuthnot CW, Garcia-Munoz M, Staines WA  
WB, IHC

Mixed inhibitory synaptic balance correlates with glutamatergic synaptic phenotype in cerebellar unipolar brush cells.

Rousseau CV, Dupuch GP, Dumoulin A, Mignani E, Dioufondé S, Diana MA  
IHC-P; tested species: rat

The basal interstitial nucleus (BIN) of the cerebellum provides diffuse ascending inhibitory input to the follicular granule cell layer.

The Journal of comparative neurology (2018) :  
IHC; tested species: mouse

Roberts PW, et al.

The vesicular GABA transporter VGAT is responsible for uptake and storage of GABA and glycine by synaptic vesicles in the central nervous system. For this reason it is frequently referred to as the vesicular inhibitory aminoacid transporter VIAAT. It is different from the plasma membrane transporters in that it is driven by a proton electrochemical gradient across the vesicle membrane. So far, only one isoform is known. VGAT is currently the best marker for inhibitory nerve terminals.

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