VGAT cytoplasmic domain

Cat. No. 131 006; Polyclonal chicken antibody, 50 µg specific antibody (lyophilized)

Data Sheet

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Ovalbumin and azide was added for stabilization. For reconstitution add 50 µl H2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunogen</td>
<td>Recombinant protein corresponding to AA 2 to 115 from rat VGAT (UniProt Id: O35458)</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Reacts with: rat (O35458), mouse (O35633), human (Q9HS98). Other species not tested yet.</td>
</tr>
<tr>
<td>Specificity</td>
<td>Specific for VGAT.</td>
</tr>
</tbody>
</table>
| matching control      | 131-0GP                                                                können

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

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.

Selected References SYSY Antibodies

Enhanced GABAergic Immunoreactivity in Hippocampal Neurons and Astroglia of Multiple Sclerosis Patients.
Kiljan S, Prins M, Baselman BM, Bol JJGM, Schenk GJ, van Dam AM

The Presynaptic Protein Mover Is Differentially Expressed Across Brain Areas and Synapse Types.
Wallraff R, Dresbach T

Selected General References

The vesicular GABA transporter, VGAT, localizes to synaptic vesicles in sets of glycineric as well as GABAergic neurons.
Chaudhry FA, Reimer RJ, Belloccio EE, Danbolt NC, Osen KK, Edwards RH, Storm-Mathisen J

Identification and characterization of the vesicular GABA transporter.

Cloning of a functional vesicular GABA and glycine transporter by screening of genome databases.
Sagné C, El Mestikawy S, Isambert MF, Hamon M, Henry JP, Giros B, Gasnier B

Uptake of GABA by rat brain synaptic vesicles isolated by a new procedure.
Hell JW, Maycox PR, Stadler H, John R