

VGLUT 2

Rudolf-Wissell-Str. 28
37079 Göttingen, Germany
Phone: +49 551-50556-0
Fax: +49 551-50556-384
E-mail: sales@sysy.com
Web: www.sysy.com

Cat.No. 135 404; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: yes ICC: 1 : 200 up to 1 : 500 IHC: 1 : 200 up to 1 : 500 IHC-P/FFPE: 1 : 500 EM: yes
Immunogen	Recombinant protein corresponding to AA 510 to 582 from rat VGLUT2 (UniProt Id: Q9JI12)
Reactivity	Reacts with: rat (Q9JI12), mouse (Q8BLE7). Other species not tested yet.
Specificity	Specific for VGLUT 2. (K.O. verified)
matching control	135-4P
Remarks	VGLUT 2 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

The vesicular glutamate transporter **2 VGLUT 2**, also referred to as **DNPI** and **SLC17A6**, has a more restricted expression than the related VGLUT 1. Like VGLUT 1, it 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.

Selected References SYSY Antibodies

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Splice-specific roles of glycine receptor alpha3 in the hippocampus. Eichler SA, Förster B, Smolinsky B, Jüttner R, Lehmann TN, Fähring M, Schwarz G, Legendre P, Meier JC The European journal of neuroscience (2009) 30(6): 1077-91. **ICC, IHC; tested species: mouse**

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