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## Produktinformation



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Diagnostik & molekulare Diagnostik



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-VGLUT2 Antibody [S29-29]

Mouse Anti-Rat VGLUT2 Monoclonal IgG1  
Catalog No. SMC-395



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

VGLUT2 Antibody

### Description

Mouse Anti-Rat VGLUT2 Monoclonal IgG1

### Species Reactivity

Mouse, Rat

### Applications

WB, IHC

### Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Rat

### Immunogen

Fusion protein amino acids 501-582 (cytoplasmic C-terminus) of rat VGlut2

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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S29-29

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**Isotype**

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IgG1

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**Specificity**

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Detects ~60kDa.

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**Cite This Product**

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Mouse Anti-Rat VGLUT2 Monoclonal, Clone S29-29 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-395)

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**Certificate Of Analysis**

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1 µg/ml of SMC-395 was sufficient for detection of VGLut2 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

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**Biological Description**

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**Alternative Names**

Differentiation associated BNPI Antibody, DNPI Antibody, SLC17A6 Antibody, Solute carrier family 17 member 6 Antibody, Vesicular glutamate transporter 2 Antibody, Differentiation associated Na dependent inorganic phosphate cotransporter Antibody, Solute carrier family 17 (Sodium dependent inorganic phosphate cotransporter) member 6 Antibody, Differentiation associated Na(+) dependent inorganic phosphate cotransporter Antibody, Differentiation-associated Na(+)-dependent inorganic phosphate cotransporter Antibody, Sodium dependent inorganic phosphate cotransporter Antibody

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**Research Areas**

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Cell Signaling, Cell Structure, Neuroscience, Neurotransmitter Transporters, Pre-Synaptic Markers, Pumps/Transporters

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**Cellular Localization**

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Cell Junction, Cytoplasmic Vesicle, Membrane, Secretory vesicle, Synapse, Synaptic vesicle membrane

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**Accession Number**

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NP\_445879.1

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**Gene ID**

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84487

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**Swiss Prot**

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Q9J112

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**Scientific Background**

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The ATP-dependent, chloride-sensitive vesicular glutamate transporters (VGLUT) include BNPI (VGLUT1), VGLUT2 (DNPI) and VGLUT3. The brain expresses BNPI (brain specific Na<sup>+</sup>-dependent inorganic phosphate (Pi) cotransporter) and VGLUT2 in a complementary fashion. The telencephalic regions express BNPI, whereas the lower brainstem and diencephalic regions express VGLUT2. Rat pinealocytes express both BNPI and VGLUT2. The striatum, hippocampus, cerebral cortex and raphe nuclei express VGLUT3 in a small number of neurons. Pancreatic  $\beta$  and  $\delta$  cells express BNPI and VGLUT2 in response to glucose concentrations. Human VGLUT3 shares a 72% sequence homology with VGLUT2 and BNPI.

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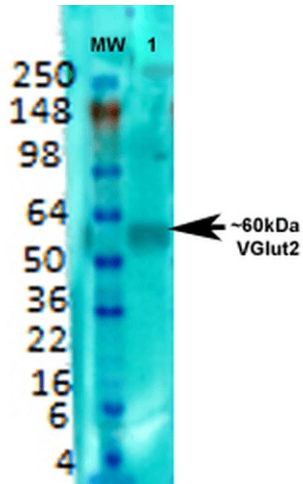
## References

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1. Aihara Y., et al. (2000) J Neurochem. 74: 2622-2625.
  2. Kaneko T., and Fujiyama F. (2002) Neurosci Res. 42: 243-250.
  3. Gras C., et al. (2002) J Neurosci. 22: 5442-5451.
  4. Takamori S., Malherbe P., Broger C., and Jahn R. (2002) EMBO Rep. 3: 798-803.
  5. Morimoto R., Hayashi M., Yatsushiro S., Otsuka M., Yamamoto A., and Moriyama Y. (2003) J Neurochem. 84: 382-391.
  6. Bai L., Zhang X., and Ghishan F.K. (2003) Am. J. Physiol. Gastrointest. Liver Physiol. 284: G808-814.
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## Product Images

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Western Blot analysis of Rat brain membrane lysate showing detection of VGLUT2 protein using Mouse Anti-VGLUT2 Monoclonal Antibody, Clone S29-29 (SMC-395). Primary Antibody: Mouse Anti-VGLUT2 Monoclonal Antibody (SMC-395) at 1:000.

## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.