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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-VGlut1 [N28/9] Standard Size Ab02164-6.1

Variable region sequences were determined by Dr. James Trimmer at the University of California, Davis, as supported by National Institutes of Health BRAIN Initiative award U24 NS109113.

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG1, Kappa

Clone Number: N28/9

Alternative Name(s) of Target: N28/9R; Vesicular glutamate transporter 1; Slc17a7; Brain-specific Na(+)-dependent inorganic phosphate cotransporter; Solute carrier family 17 member 7

UniProt Accession Number of Target Protein: Q62634

Published Application(s): WB, IF, IHC

Published Species Reactivity: Rat

Immunogen: This antibody was raised by immunising BALB/c mice with a fusion protein amino acids 493-560 (cytoplasmic C-terminus) of rat VGlut1

Specificity: This antibody is specific for the Vglut1 protein. The antibody does not cross-react with VGlut2 or VGlut3. Vglut1 mediates the uptake of glutamate into synaptic vesicles at presynaptic nerve terminals of excitatory neural cells. May also mediate the transport of inorganic phosphate.

Application Notes: Immunofluorescence was performed on the brain of mice and rats using this antibody (Lindhoff et al, 2009; PMID:19285470) (Garcia-Pino et al, 2009; PMID:20151361) (Takahashi et al, 2011; PMID:21262467). This antibody has been used for immunohistochemistry on the brain of a rat (Larsson et al, 2011; PMID:21810784). The antibody was used in a western blot experiment on rat brain extracts (Garcia-Pino et al, 2009; PMID:20151361). Immunocytochemistry has been performed on normal rat retinas with this antibody (Camino et al, 2015; PMID:25499209).

Antibody First Published in: Andrews et al. A toolbox of IgG subclass-switched recombinant monoclonal antibodies for enhanced multiplex immunolabeling of brain eLife. 2019; 8: e43322. [PMID:30667360](#)

Note on publication: This article describes the generation of a library of recombinant monoclonal antibodies (R-mAbs) from a pool of mAb-producing hybridomas for neuroscience research.

Product Form

Size:

200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.