

Product Information

Anti-VMAT2

produced in rabbit, affinity isolated antibody

Catalog Number **V9014**

Product Description

Anti-VMAT2 is produced in rabbit using as immunogen a synthetic peptide corresponding to internal residues of the human, mouse and rat VMAT2 (GeneID 6571). The antibody is affinity-purified.

Anti-VMAT2 recognizes human VMAT2. Applications include the detection of VMAT2 by immunoblotting and immunohistochemistry.

VMAT2 is involved in the ATP-dependent vesicular transport of biogenic amine neurotransmitters. VMAT2 also functions to pump cytosolic monoamines including dopamine, norepinephrine, serotonin, and histamine into synaptic vesicles. It is a requisite for vesicular amine storage prior to secretion via exocytosis.

Reagent

Supplied as a solution in phosphate buffered saline, containing 0.02% sodium azide.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to three months. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended.

Product Profile

Immunoblotting: a working dilution of 1:500 to 1:1,000 is recommended.

Immunohistochemistry: a working dilution of 1:100 to 1:250 is recommended.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

References

1. Erickson, J.D., and Eiden, L.E., Functional identification and molecular cloning of a human brain vesicle monoamine transporter. *J. Neurochem.* **61**: 2314-2317 (1993).
2. Thiriot, D.S., et al., Identification of human vesicle monoamine transporter (VMAT2) lumenal cysteines that form an intramolecular disulfide bond. *Biochemistry* **41**: 6346-6353 (2002).

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