

Vesicular Monoamine Transporter 2, C-Terminus Antibody
Affinity purified sheep polyclonal antibody
Catalog # AN1209**Specification**

Vesicular Monoamine Transporter 2, C-Terminus Antibody - Product Information

Application	WB
Primary Accession	Q05940
Reactivity	Rat
Host	Sheep
Clonality	polyclonal
Calculated MW	57 KDa

Vesicular Monoamine Transporter 2, C-Terminus Antibody - Additional Information

Gene ID	6571
Gene Name	VMAT2

Other Names

Synaptic vesicular amine transporter, Monoamine transporter, Solute carrier family 18 member 2, Vesicular amine transporter 2, VAT2, SLC18A2, SVMT, VMAT2

Target/Specificity

Synthetic peptide corresponding to amino acid residues from the intracellular C-terminal region conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from sheep serum by affinity purification using a column to which the peptide immunogen was coupled.

Antibody Specificity

Specific for the ~57k VMAT2 protein in Western blots of rat caudate lysate.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Vesicular Monoamine Transporter 2, C-Terminus Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

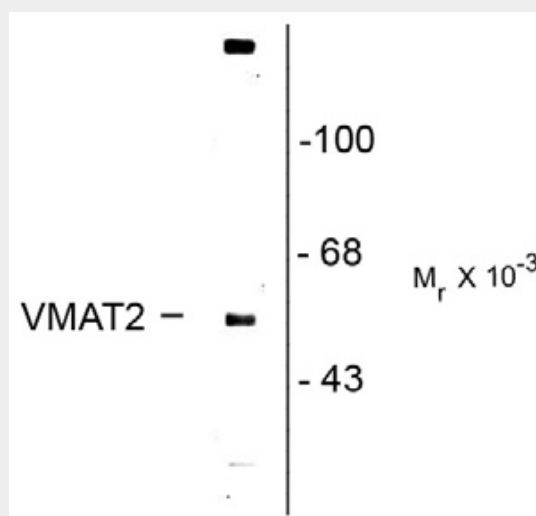
Blue Ice

Vesicular Monoamine Transporter 2, C-Terminus Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Vesicular Monoamine Transporter 2, C-Terminus Antibody - Images



Western blot of rat caudate lysate showing specific immunolabeling of the ~ 57k VMAT2 protein.

Vesicular Monoamine Transporter 2, C-Terminus Antibody - Background

Vesicular neurotransmitter transporters sequester the transmitters into synaptic vesicles (Erickson et al., 1996). The vesicular monoamine transporter 2 (VMAT2) is responsible for catecholamine and serotonin storage in central synapses. Antibodies specific for VMAT have been used to monitor expression of the transporter during development and in aging and can be effectively used as a marker for monoamine terminals (Haycock et al., 2003; Witkovsky et al., 2005).

Vesicular Monoamine Transporter 2, C-Terminus Antibody - References

- Erickson JD, Schafer MKH, Bonner TI, Eiden LE, Weihe E (1996) Distinct pharmacological properties and distribution in neurons and endocrine cells of two isoforms of the human vesicular monoamine transporter. *Proc Natl Acad Sci USA* 93:5166-5171.
- Giros B, El Mestikawy S, Godinot N, Zheng K, Han H, Yang-Feng T, Caron MG (1991) Cloning, pharmacological characterization, and chromosome assignment of the human dopamine transporter. *J Pharmacol Exptl Ther* 256:2139-2142.
- Haycock JW, Becker L, Ang L, Furukawa Y, Hornykiewicz O, Kish SJ (2003) Marked disparity between age-related changes in dopamine and other presynaptic dopaminergic markers in human striatum. *J Neurochem* 87:574-585.
- Witkovsky P, Arango-Gonzalez B, Haycock JW, Kohler K (2004) Rat retinal dopaminergic neurons: Differential maturation of somatodendritic and axonal compartments. *J Comp Neurol* 481:352-362.