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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

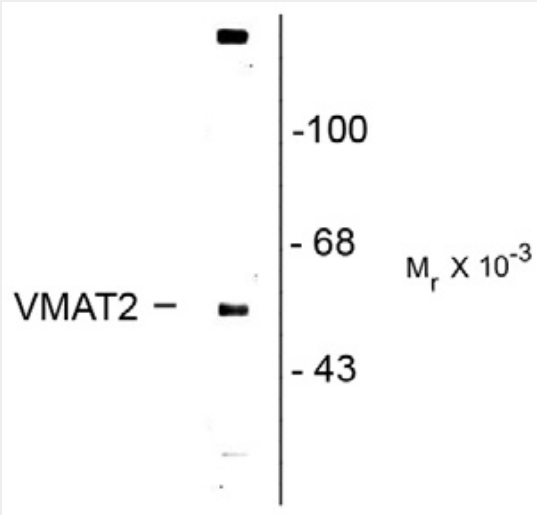
Vesicular Monoamine Transporter 2, C-Terminus Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Vesicular Monoamine Transporter 2, C-Terminus Antibody - Images



Western blot of rat caudate lysate showing specific immunolabelingof 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 56:2139-2142.
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.