

Vesicular Monoamine Transporter 1 (VMAT1) Rabbit Antibody

Catalog #:	20041	Product type:	Primary antibodies for immunohistochemistry
Lot #:	907001	Clonality:	Polyclonal
Form:	Lyophilized Whole Serum (100 µL)	Isotype:	N/A
Host:	Rabbit	Preservative:	≤ 0.09% sodium azide
Species Reactivity:	Tested in rat. 100% sequence homology with rat, 90% with mouse and human	Antigen:	Synthetic peptide corresponding to rat VMAT1 502-521 coupled to carrier protein.

Instructions

Preparation:	Do not reconstitute until ready to use since the product is most stable when lyophilized. The product does not need to be cooled during shipping. For long-term storage, store lyophilized antibody until ready to use at -15° C. or lower. Reconstitute with 100 µL of distilled or deionized water.
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Application:

Quality Control:	The ImmunoStar VMAT1 antiserum was quality control tested using standard immunohistochemical methods in rat adrenal medulla using biotin/avidin-HRP techniques; the antiserum shows no reactivity in rat CNS. Specificity of the antiserum was demonstrated by soluble pre-adsorption and Western blot. Tissue staining is completely eliminated by pretreatment of the diluted antibody with an excess of rat VMAT1 peptide residues 502-521. Western blot analysis of immunoprecipitated rat adrenal homogenates demonstrates a dense immunoreactive band of approximately 55 kD and a minor band of approximately 75 kD.
Tissue:	Rat adrenal medulla
Absorption Control:	Rat VMAT1 (502-521) 100 µg/mL diluted antibody completely eliminates immunolabeling
Perfusion Fixation:	<ul style="list-style-type: none"> Fixative: 4% paraformaldehyde in 0.1 M Phosphate buffer, pH 7.4; 500 mL over ~ 20 min. Post Fixation: 1.5 hours at 4° C in 4% paraformaldehyde in 0.1 M phosphate buffer, pH 7.4. Note: Paraformaldehyde is a necessary component in fixation. If needed, low levels of glutaraldehyde (0.1-0.3%) may be used in conjunction with paraformaldehyde.
Sections:	10 µm cryostat
Tissue Incubation:	18-24 hours at 2-8° C.
Detection System:	biotin/avidin-HRP at dilutions recommended by the manufacturers.
Test Date:	March 2009
Performed by:	JR
Suggested Dilution:	1/1,000 - 1/3,000 in PBS/0.3% Triton X-100 - biotin/avidin-HRP technique

Notes:

Special Instructions:	It is recommended that users perform a primary antibody dilution series using the dilution recommendations above as a guideline. Note that a change in the fixation or buffering system as used in our protocol may change the configuration of the protein and therefore, may alter the reactivity with the tissue tested. Please read the instruction booklet carefully before beginning the procedure.
Storage:	After reconstitution, use immediately or refrigerate at 2-8° C. up to 2 days. For long-term storage, appropriately aliquot antibody to avoid repeated freeze/thaw cycles and freeze at -15° C. or lower.
Concentration:	Not applicable. Antibody concentration is only relevant for purified antibodies.
Journal Articles:	Not available at this time

For Laboratory Reagent Use Only. Analytical and performance characteristics are not established.

ALL PRODUCTS ARE FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE