

VMAT1 Rabbit pAb

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Catalog # AP94366

Product Information

Application	WB
Primary Accession	Q8R090
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56033
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse VMAT1
Epitope Specificity	461-521/521
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	110877
Other Names	Chromaffin granule amine transporter, Solute carrier family 18 member 1, Vesicular amine transporter 1, VAT1, Slc18a1, Vmat1
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Slc18a1
Synonyms	Vmat1
Function	Electrogenic antiporter that exchanges one cationic monoamine with two intravesicular protons across the membrane of secretory and synaptic vesicles. Uses the electrochemical proton gradient established by the V-type proton-pump ATPase to accumulate high concentrations of monoamines inside the vesicles prior to their release via exocytosis. Transports

catecholamines and indolamines with higher affinity for serotonin (PubMed:[21712771](#)). Regulates the transvesicular monoaminergic gradient that determines the quantal size. Mediates presynaptic monoaminergic vesicle transport in the amygdala and prefrontal brain regions related with emotion processing in response to environmental stimuli (By similarity).

Cellular Location

Cytoplasmic vesicle, secretory vesicle membrane {ECO:0000250|UniProtKB:P54219}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein

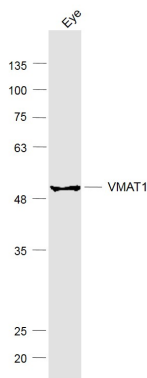
Tissue Location

Detected in adrenal medulla, and brain (at protein level). In brain, specifically found in the medulla oblongata, pons, prefrontal cortex, striatum, dentate gyrus and hippocampus (at protein level).

Background

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Images



Sample:

Eye (Mouse) Lysate at 40 ug

Primary: Anti-VMAT1 (AP94366) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD

Observed band size: 58 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.