



Rabbit Anti-VMAT2 antibody

SL9565R

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| Product Name: | VMAT2 |
| Chinese Name: | 脑单胺类神经递质Transporter抗体 |
| Alias: | MNAT; Monoamine neurotransmitter transporter; Monoamine transporter; Slc18a2; Solute carrier family 18 (vesicular monoamine) member 2; Solute carrier family 18 member 2; SVAT; SVMT; Synaptic vesicle amine transporter brain; Synaptic vesicle monoamine transporter brain; Synaptic vesicular amine transporter; VAT 2; VAT2; Vesicle monoamine transporter type 2; Vesicle monoamine/H ⁺ antiporter; Vesicular amine transporter 2; Vesicular monoamine transporter 2; VMAT 2; VMAT2; VMAT2_HUMAN; 1110037L13Rik; 9330105E13; MGC120477; MGC120478; MGC26538; MGC90556. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 57kDa |
| Cellular localization: | cytoplasmicThe cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human VMAT2:421-514/514 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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. |
| PubMed: | PubMed |

Neurotransmission depends on the regulated exocytotic release of chemical transmitter molecules. This requires the packaging of these substances into the specialized secretory vesicles of neurons and neuroendocrine cells, a process mediated by specific vesicular transporters. The family of genes encoding the vesicular transporters of monoamines (VMAT 1 and VMAT 2) and acetylcholine (VACht) have been cloned and functionally characterized. The sequence of these integral membrane proteins predicts twelve transmembrane domains and weak homology to a class of bacterial antibiotic resistance proteins. The vesicular transport of neurotransmitter molecules has been shown to be an active ATP- and proton dependent transport mechanism.

Function:

Involved in the ATP-dependent vesicular transport of biogenic amine neurotransmitters. Pumps cytosolic monoamines including dopamine, norepinephrine, serotonin, and histamine into synaptic vesicles. Requisite for vesicular amine storage prior to secretion via exocytosis.

Subunit:

Interacts with SLC6A3.

Subcellular Location:

Cytoplasmic vesicle membrane.

Similarity:

Belongs to the major facilitator superfamily. Vesicular transporter family.

SWISS:

Q05940

Gene ID:

6571

Database links:

[Entrez Gene: 6571](#)Human

[Entrez Gene: 214084](#)Mouse

[Entrez Gene: 25549](#)Rat

[Omim: 193001](#)Human

[SwissProt: Q05940](#)Human

[SwissProt: Q8BRU6](#)Mouse

[SwissProt: Q01827](#)Rat

[Unigene: 596992](#)Human

[Unigene: 268797](#)Mouse

Product Detail:

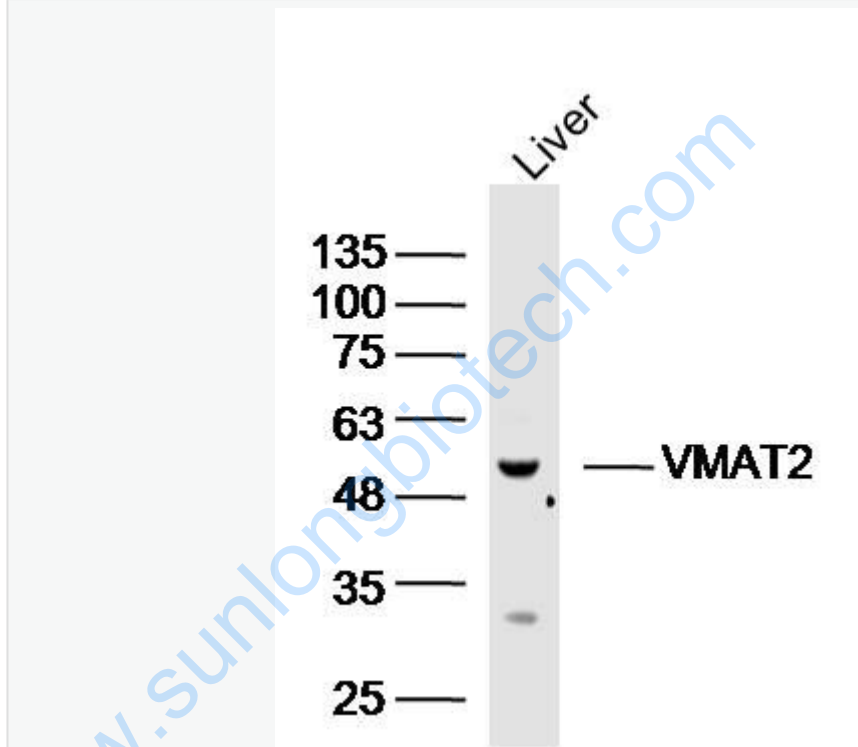
[Unigene: 361919](#)Mouse

[Unigene: 9686](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



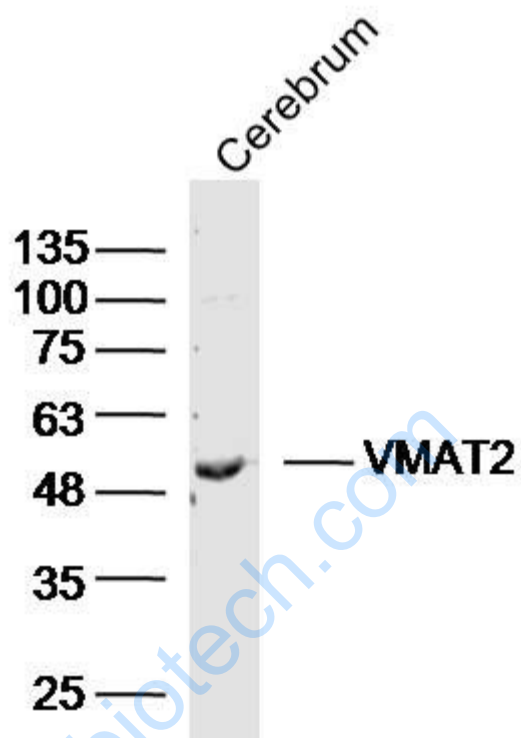
Sample: Liver (Mouse) Lysate at 40 ug

Primary: Anti-VMAT2 (SL9565R) at 1/300 dilution

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

Predicted band size: 57 kD

Observed band size: 57 kD



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