

## Rabbit anti-Human VMAT1/SLC18A1 Polyclonal Antibody | anti-SLC18A1 antibody

Anti-VMAT1/SLC18A1 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                |
|-----------|--------|------------|-----------------------------------------------------------------------------|
| AAA125491 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

VMAT1/SLC18A1; Polyclonal Antibody; Anti-VMAT1/SLC18A1 Antibody; Chromaffin granule amine transporter; Solute carrier family 18 member 1; Vesicular amine transporter 1; VAT1; SLC18A1; VMAT1; anti-SLC18A1 antibody

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                  |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                                                                                           |
| Reactivity                                        | Human                                                                                                                                                                                                            |
| Clonality                                         | Polyclonal                                                                                                                                                                                                       |
| Isotype                                           | IgG                                                                                                                                                                                                              |
| Specificity                                       | No cross reactivity with other proteins.                                                                                                                                                                         |
| Purity/Purification                               | Immunogen affinity purified.                                                                                                                                                                                     |
| Form/Format                                       | Lyophilized<br>Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                                  |
| Sequence Length                                   | 525                                                                                                                                                                                                              |
| Applicable Applications for anti-SLC18A1 antibody | ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                   |
| Immunogen                                         | E Coli-derived human VMAT1/SLC18A1 recombinant protein (Position: M1-E510).                                                                                                                                      |
| Reconstitution                                    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                             |
| Preparation and Storage                           | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES

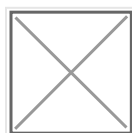


WB (Western Blot)

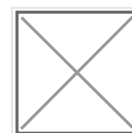
Figure 1. Western blot analysis of SLC18A1 using anti-SLC18A1 antibody.



IHC (Immunohistochemisry)



IHC (Immunohiostchemistry)



FCM/FACS (Flow Cytometry)

ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SLC18A1 antibody | <p>Description: Rabbit IgG polyclonal antibody for VMAT1/SLC18A1 detection. Tested with WB, IHC-P, FCM, Direct ELISA in Human.</p> <p>Background: Chromaffin granule amine transporter is a protein that in humans is encoded by the SLC18A1 gene. This gene is mapped to 8p21.3. The vesicular monoamine transporter acts to accumulate cytosolic monoamines into vesicles, using the proton gradient maintained across the vesicular membrane. Its proper function is essential to the correct activity of the monoaminergic systems that have been implicated in several human neuropsychiatric disorders. The transporter is a site of action of important drugs, including reserpine and tetrabenazine.</p>                        |
| References                                            | <p>1. Liu, Y., Peter, D., Roghani, A., Schuldiner, S., Prive, G. G., Eisenberg, D., Brecha, N., Edwards, R. H. A cDNA that suppresses MPP+ toxicity encodes a vesicular amine transporter. Cell 70: 539-551, 1992.</p> <p>2. Peter, D., Finn, J. P., Klisak, I., Liu, Y., Kojis, T., Heinzmann, C., Roghani, A., Sparkes, R. S., Edwards, R. H. Chromosomal localization of the human vesicular amine transporter genes. Genomics 18: 720-723, 1993.</p> <p>3. Roghani, A., Welch, C., Xia, Y.-R., Liu, Y., Peter, D., Finn, J. P., Edwards, R. H., Lusi, A. J. Assignment of the mouse vesicular monoamine transporter genes, Slc18a1 and Slc18a2, to chromosomes 8 and 19 by linkage analysis. Mammalian Genome 7: 393-394, 1996.</p> |

NCBI AND UNIPROT INFORMATION

|                                  |                                      |
|----------------------------------|--------------------------------------|
| NCBI GI #                        | 1722741                              |
| NCBI GeneID                      | 6570                                 |
| UniProt Accession #              | P54219                               |
| NCBI Official Full Name          | Chromaffin granule amine transporter |
| NCBI Official Synonym Full Names | solute carrier family 18 member A1   |
| NCBI Official Symbol             | SLC18A1                              |
| NCBI Official Synonym Symbols    | CGAT; VAT1; VMAT1                    |
| NCBI Protein Information         | chromaffin granule amine transporter |
| UniProt Protein Name             | Chromaffin granule amine transporter |
| UniProt Gene Name                | SLC18A1                              |
| UniProt Synonym Gene Names       | VAT1; VMAT1; VAT1                    |
| UniProt Entry Name               | VMAT1_HUMAN                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.