

## Human Synaptic Vesicular Amine Transporter (SLC18A2) ELISA Kit | SLC18A2 elisa kit

Human Synaptic Vesicular Amine Transporter (SLC18A2) ELISA Kit

CATALOG #  
**AAA330832**

REACTIVITY  
**Human**

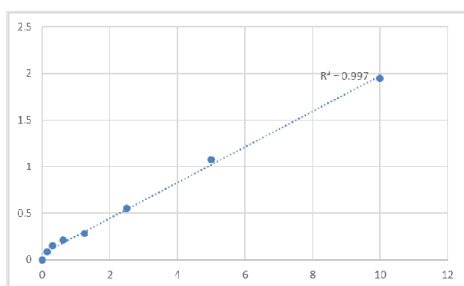
### PRODUCT SYNONYMS

Synaptic Vesicular Amine Transporter (SLC18A2); Human Synaptic Vesicular Amine Transporter (SLC18A2) ELISA Kit; SLC18A2; MGC120477; MGC120478; MGC26538; SVAT; SVMT; VAT2; VMAT2; vesicle monoamine transporter type 2; SLC18A2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Synaptic vesicular amine transporter (SLC18A2) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC18A2. No significant cross-reactivity or interference between Human SLC18A2 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sequence Length         | 514                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Synaptic vesicular amine transporter (SLC18A2) Standard Curve.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SLC18A2 elisa kit | <p>Description: This Human Synaptic vesicular amine transporter (SLC18A2) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC18A2 in samples. An antibody specific for SLC18A2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC18A2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC18A2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC18A2 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: VMAT2 is an integral membrane protein that acts to transport monoamines—particularly neurotransmitters such as dopamine, norepinephrine, serotonin, and histamine—from cellular cytosol into synaptic vesicles. In humans, the VMAT2 protein is encoded by the VMAT2 gene. Geneticist Dean Hamer identified the VMAT2 gene as correlating with spirituality using data from a smoking survey, which included questions intended to measure "self-transcendence". Hamer performed the spirituality study on the side, independently of the National Cancer Institute smoking study. His findings were published in the mass-market book According to Carl Zimmer, Hamer's study has not been academically published and depends on minor statistical variance.</p> |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                      |
|----------------------------------|--------------------------------------|
| NCBI GI #                        | 1722742                              |
| NCBI GeneID                      | 6571                                 |
| UniProt Accession #              | Q05940                               |
| NCBI Official Full Name          | Synaptic vesicular amine transporter |
| NCBI Official Synonym Full Names | solute carrier family 18 member A2   |
| NCBI Official Symbol             | SLC18A2                              |
| NCBI Official Synonym Symbols    | SVAT; SVMT; VAT2; VMAT2; PKDYS2      |
| NCBI Protein Information         | synaptic vesicular amine transporter |
| UniProt Protein Name             | Synaptic vesicular amine transporter |
| UniProt Gene Name                | SLC18A2                              |
| UniProt Synonym Gene Names       | SVMT; VMAT2; VAT2                    |
| UniProt Entry Name               | VMAT2_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/synaptic-vesicular-amine-transporter-slc18a2/330832>