# Synaptic vesicular amine transporter Antibody

Mouse Monoclonal Antibody [Clone SLC18A2/16456]

| Catalog No | Format | Size |
|---|---|---|
| 6571-MSM7-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 6571-MSM7-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 6571-MSM7-P1ABX | Purified Ab WITHOUT BSA or Azide at 1.0mg/ml | 100 ug |

| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

| | |
|---|---|
| **Clone** | SLC18A2/16456 |
| **Immunogen** | Recombinant fragment (around aa 46-154) of human SLC18A2 protein |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2b |
| **Mol. Weight of Antigen** | 55.71kDa |
| **Cellular Localization** | Axon, Cell projection, Cytoplasmic vesicle, Dendrite, Secretory vesicle, Secretory vesicle membrane, Synaptic vesicle membrane |
| **Species Reactivity** | Human |
| **Positive Control** | Expressed in neuronal and neuroendocrine tissues |

**Optimal dilution for a specific application should be determined.*

## Product Images for Synaptic vesicular amine transporter Antibody

### Specificity & Comments

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 a variety of catecholamines such as dopamine, adrenaline and noradrenaline, histamine, and indolamines such as serotonin (PubMed:23363473, PubMed:37914936, PubMed:38081299, PubMed:38517752, PubMed:8643547). Regulates the transvesicular monoaminergic gradient that determines the quantal size. Mediates somatodendritic dopamine release in hippocampal neurons, likely as part of a regulated secretory pathway that integrates retrograde synaptic signals (By similarity). Acts as a primary transporter for striatal dopamine loading ensuring impulse-dependent release of dopamine at the synaptic cleft (By similarity). Responsible for histamine and serotonin storage and subsequent corelease from mast cell granules (PubMed:8860238).

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.