



# Anti-SLC18A2 (C-terminal) polyclonal antibody (DPAB2421RH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Vesicular monoamine Transporter
<b>Antigen Description</b>	The vesicular monoamine transporter 2 (VMAT2) also known as solute carrier family 18 member 2 (SLC18A2) is a protein that in humans is encoded by the SLC18A2 gene. 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.
<b>Specificity</b>	The vesicular monoamine transporter is responsible for the vesicular uptake of monoamines, like dopamine, norepinephrine, epinephrine, serotonin and histamine. The antiserum recognizes monoaminergic neurons of the CNS, the ECL-cells of the stomach, as well
<b>Immunogen</b>	Synthetic peptide (CQSYPIGDDEESED-OH) from the Cterminus of rat VMAT2 conjugated to BSA
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Rat
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Frozen sections
<b>Positive Control</b>	Frozen sections of rat small intestine
<b>Format</b>	Rabbit serum
<b>Size</b>	50 µl

<b>Buffer</b>	Dissolve in 50 – 100 µl distilled water, and dilute further with 0.15 M PBS with 1% BSA and 0.1% NaN <sub>3</sub> .
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	At 2-8°C (undiluted) or at -20°C (aliquots)

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SLC18A2 solute carrier family 18 (vesicular monoamine), member 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	SLC18A2
<b>Synonyms</b>	SLC18A2; solute carrier family 18 (vesicular monoamine), member 2; SVAT; SVMT; VAT2; VMAT2; Synaptic vesicular amine transporter; Monoamine transporter; Solute carrier family 18 member 2; Vesicular amine transporter 2; synaptic vesicular amine transporter; monoamine transporter; vesicular amine transporter 2; vesicle monoamine/H <sup>+</sup> antiporter; solute carrier family 18 member 2; vesicle monoamine transporter type 2; monoamine neurotransmitter transporter; MGC120477; MGC120478; MGC26538; OTTHUMP00000020576
<b>Entrez Gene ID</b>	<a href="#">6571</a>
<b>Protein Refseq</b>	<a href="#">NP_003045</a>
<b>UniProt ID</b>	<a href="#">Q05940</a>
<b>Chromosome Location</b>	10q25
<b>Pathway</b>	Dopamine Neurotransmitter Release Cycle; Na <sup>+</sup> /Cl <sup>-</sup> dependent neurotransmitter transporters; Parkinson's disease; SLC-mediated transmembrane transport; Transmembrane transport of small molecules
<b>Function</b>	drug binding; enzyme binding; heat shock protein binding; monoamine transmembrane transporter activity; serotonin transmembrane transporter activity