

SLC6A3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16940b**Specification**

SLC6A3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q01959](#)**SLC6A3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 6531**Other Names**

Sodium-dependent dopamine transporter, DA transporter, DAT, Solute carrier family 6 member 3, SLC6A3, DAT1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SLC6A3 Antibody (C-term) Blocking Peptide - Protein Information**Name** SLC6A3**Synonyms** DAT1**Function**

Mediates sodium- and chloride-dependent transport of dopamine (PubMed:1406597, PubMed:8302271, PubMed:10375632, PubMed:11093780, PubMed:15505207, PubMed:19478460). Also mediates sodium- and chloride- dependent transport of norepinephrine (also known as noradrenaline) (By similarity). Regulator of light-dependent retinal hyaloid vessel regression, downstream of OPN5 signaling (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, neuron projection {ECO:0000250|UniProtKB:P23977}. Cell projection, axon. Note=Localizes to neurite tips in neuronal cells (By similarity). Colocalizes with SEPTIN4 at axon terminals, especially at the

varicosities (By similarity) {ECO:0000250|UniProtKB:P23977, ECO:0000250|UniProtKB:Q61327}

Tissue Location

Highly expressed in substantia nigra (PubMed:7637582). Expressed in axonal varicosities in dopaminergic nerve terminals (at protein level) (PubMed:17296554). Expressed in the striatum (at protein level) (PubMed:17296554)

SLC6A3 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SLC6A3 Antibody (C-term) Blocking Peptide - Images

SLC6A3 Antibody (C-term) Blocking Peptide - Background

This gene encodes a dopamine transporter which is a member of the sodium- and chloride-dependent neurotransmitter transporter family. The 3' UTR of this gene contains a 40 bp tandem repeat, referred to as a variable number tandem repeat or VNTR, which can be present in 3 to 11 copies. Variation in the number of repeats is associated with idiopathic epilepsy, attention-deficit hyperactivity disorder, dependence on alcohol and cocaine, susceptibility to Parkinson disease and protection against nicotine dependence.

SLC6A3 Antibody (C-term) Blocking Peptide - References

Simon, J.R., et al. Behav. Brain Res. 216(1):452-457(2011) Paloyelis, Y., et al. Neuropsychopharmacology 35(12):2414-2426(2010) Shang, C.Y., et al. Prog. Neuropsychopharmacol. Biol. Psychiatry (2010) In press : Jijun, L., et al. Neurol India 58(4):523-529(2010) Torres, G.E., et al. J. Biol. Chem. 278(4):2731-2739(2003)