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SLC6A3 / DAT Antibody (internal region, near N-Term)

Peptide-affinity purified goat antibody
Catalog # AF3700a

Specification

SLC6A3 / DAT Antibody (internal region, near N-Term) - Product Information

Application	**WB**
Primary Accession	Q01959
Other Accession	NP_001035.1, 6531
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**68495**

SLC6A3 / DAT Antibody (internal region, near N-Term) - Additional Information

Gene ID 6531

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

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SLC6A3 / DAT Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC6A3 / DAT Antibody (internal region, near N-Term) - Protein Information

Name SLC6A3

Synonyms DAT1

Function
Mediates sodium- and chloride-dependent transport of dopamine (PubMed:1406597, PubMed:8302271, PubMed:10375632, PubMed:11093780, PubMed:<a

href="http://www.uniprot.org/citations/15505207" target="_blank">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 / DAT Antibody (internal region, near N-Term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC6A3 / DAT Antibody (internal region, near N-Term) - Images

AF3700a (1 µg/ml) staining of Human Substantia nigra lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

SLC6A3 / DAT Antibody (internal region, near N-Term) - References

Relationship of DAT1 and adult ADHD to task-positive and task-negative working memory

networks. Brown AB, Biederman J, Valera E, Makris N, Doyle A, Whitfield-Gabrieli S, Mick E, Spencer T, Faraone S, Seidman L. Psychiatry Res. 2011 Jul 30;193(1):7-16. Epub 2011 May 18. PMID: 21596533