

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, E
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

Dilution

WB~~1:1000

E~~N/A

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:10375632, PubMed:11093780, PubMed:1406597, PubMed:15505207, PubMed:19478460, PubMed:39112701, PubMed:39112703, PubMed:39112705, PubMed:8302271). 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

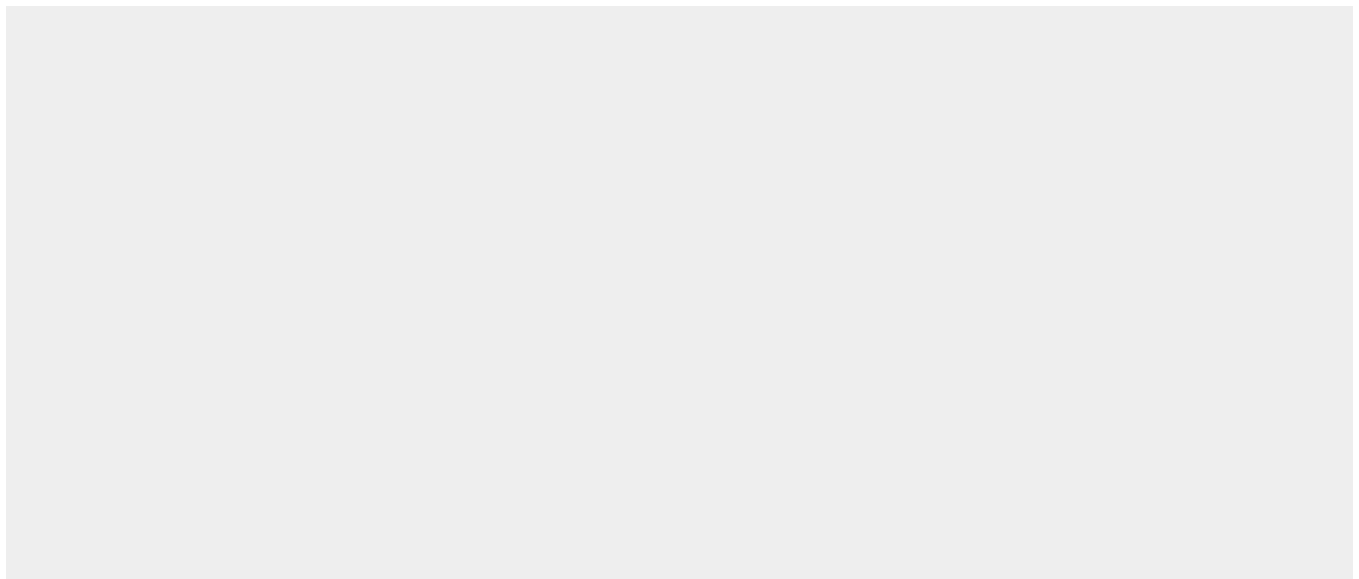
Highly expressed in substantia nigra (PubMed:7637582). Expressed in axonal varicosities in dopaminergic nerve terminals (at protein level) (PubMed:17296554). Expressed in the striatum (at protein level) (PubMed:17296554)

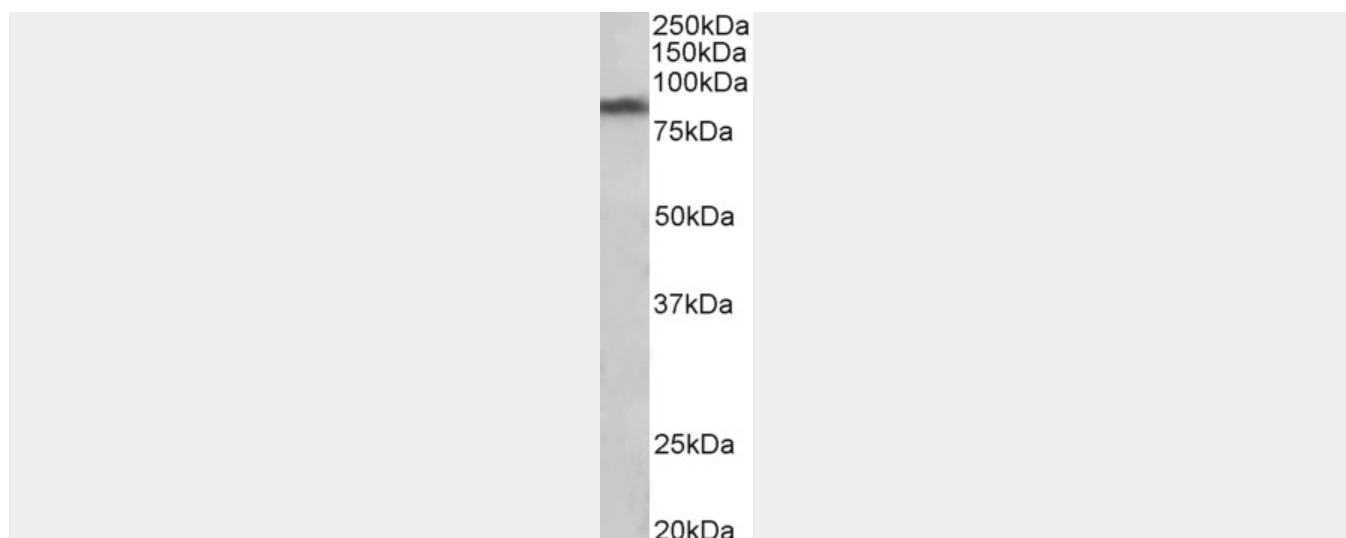
SLC6A3 / DAT Antibody (internal region, near N-Term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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