

SLC6A3 / Dopamine Transporter Antibody (EL2 Region)
Rabbit Polyclonal Antibody
Catalog # ALS15133**Specification**

SLC6A3 / Dopamine Transporter Antibody (EL2 Region) - Product Information

Application	WB, IHC
Primary Accession	Q01959
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68kDa KDa

SLC6A3 / Dopamine Transporter Antibody (EL2 Region) - Additional Information**Gene ID** 6531**Other Names**

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

Target/Specificity

Specific for the ~88k DAT protein in Western blots

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

SLC6A3 / Dopamine Transporter Antibody (EL2 Region) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC6A3 / Dopamine Transporter Antibody (EL2 Region) - 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)

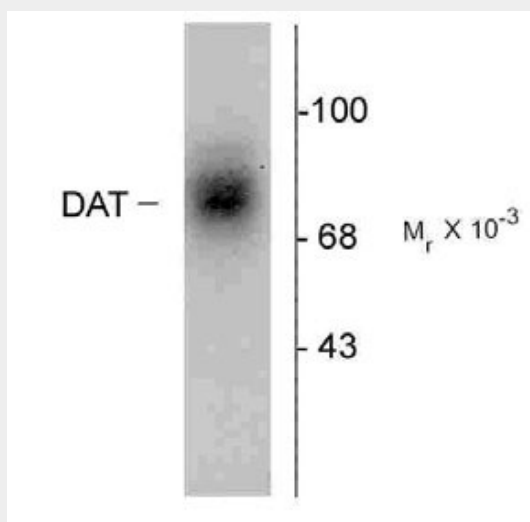
Volume

50 μ l

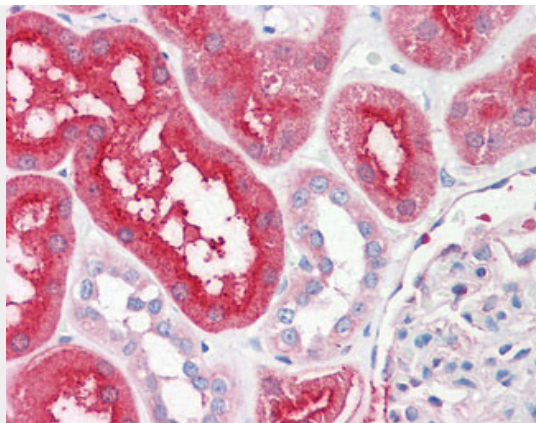
SLC6A3 / Dopamine Transporter Antibody (EL2 Region) - Protocols

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 / Dopamine Transporter Antibody (EL2 Region) - Images

Western blot of human caudate lysate showing specific immunolabeling of the ~88k DAT protein.



Anti-SLC6A3 / Dopamine Transporter antibody IHC of human kidney.

SLC6A3 / Dopamine Transporter Antibody (EL2 Region) - Background

Amine transporter. Terminates the action of dopamine by its high affinity sodium-dependent reuptake into presynaptic terminals.

SLC6A3 / Dopamine Transporter Antibody (EL2 Region) - References

- Vandenbergh D.J.,et al.Brain Res. Mol. Brain Res. 15:161-166(1992).
Giros B.,et al.Mol. Pharmacol. 42:383-390(1992).
Pristupa Z.B.,et al.Mol. Pharmacol. 45:125-135(1994).
Kawarai T.,et al.Gene 195:11-18(1997).
Vandenbergh D.J.,et al.Mol. Psychiatry 5:283-292(2000).