

Product datasheet for **AM01272SU-N**

Dopamine Transporter (SLC6A3) (N-term) Rat Monoclonal Antibody [Clone ID: 4F8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4F8
Applications:	IHC, WB
Recommended Dilution:	Western Blot: Recognizes a broad band at 70-80 kD. This antibody is not recommended for Western blotting when using rat samples. Immunohistochemistry on Frozen Sections: 1/1000-1/10000. Incubate the primary antibody, diluted appropriately in TBS with 1% serum, for 2 hours at RT followed by 16 hours at 4°C. A PAP detection system is recommended when working with rat tissue sections; use 4% paraformaldehyde. Recommended Positive Control: Brain (caudate, putamen and nucleus accumbens).
Reactivity:	Human, Monkey, Mouse, Rat
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	N-terminus of Human Dopamine transporter fused to Glutathione Stransferase.
Specificity:	This antibody reacts to Dopamine transporter, N-terminus.
Formulation:	State: Supernatant State: Liquid Tissue Culture Supernatant Stabilizer: None Preservative: None
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	solute carrier family 6 member 3
Database Link:	Entrez Gene 6531 Human Q01959



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Background:

Plasmalemmal neurotransmitter transporters sequester synaptic and peri synaptic transmitter into presynaptic elements. The Dopamine Transporter (DAT) is responsible for the reaccumulation of dopamine after it has been released. Levels of DAT protein expression are altered by chronic drug administration. The activity of the DAT reuptake carrier is sodium dependent, and it is suspected to play a role in such neurologic and psychiatric disorders as Parkinson's disease, Tourette's disease, schizophrenia, and addiction. It is a 12 transmembrane domain transporter with the N and C terminal regions located within the cytoplasm.

Synonyms:

Sodium-dependent dopamine transporter, DA transporter, DAT1