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Dopamine Transporter, Extracellular Loop 2 Antibody

Affinity purified rabbit polyclonal antibody
Catalog # AN1069

Specification

Dopamine Transporter, Extracellular Loop 2 Antibody - Product Information

Application	**WB**
Primary Accession	Q01959
Reactivity	**Human, Monkey**
Host	**Rabbit**
Clonality	**polyclonal**
Calculated MW	**88 KDa**

Dopamine Transporter, Extracellular Loop 2 Antibody - Additional Information

Gene ID	**6531**
Gene Name	**SLC6A3**

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

Target/Specificity
Synthetic peptide corresponding to amino acid residues from the intracellular C-terminal region conjugated to KLH.

Dilution
WB~~ 1:1000

Format
Prepared from rabbit serum by affinity purification using a SulfoLink® column matrix to which the peptide immunogen was coupled.

Antibody Specificity
Specific for the ~88k DAT protein in Western blots.

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
Dopamine Transporter, Extracellular Loop 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Dopamine Transporter, Extracellular Loop 2 Antibody - Protocols

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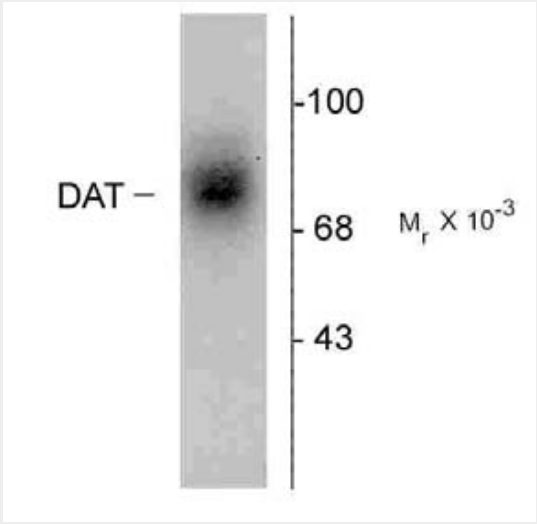
Provided below are standard protocols that you may find useful for product applications.

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

Dopamine Transporter, Extracellular Loop 2 Antibody - Images



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

Dopamine Transporter, Extracellular Loop 2 Antibody - Background

The dopamine transporter (DAT) is responsible for the reaccumulation of dopamine after it has been released. DAT antibodies and antibodies for other markers of catecholamine biosynthesis are widely used as markers for dopaminergic and noradrenergic neurons in a variety of applications including depression, schizophrenia, Parkinson's disease and drug abuse (Kish et al., 2001; Zhu et al., 2000; Zhu et al., 1999). Levels of DAT protein expression are altered by chronic drug administration (Wilson et al., 1996).

Dopamine Transporter, Extracellular Loop 2 Antibody - References

Kish SJ, Kalasinsky KS, Derkach P, Schmunk GA, Guttman M, Ang L, Adams V, Furukawa Y, Haycock JW (2001) Striatal dopaminergic and serotonergic markers in human heroin users. Neuropsychopharmacology 24:561-567.
Wilson JM, Kalasinsky KS, Levey AI, Bergeron C, Reiber G, Anthony RM, Schmunk GA, Shannak K, Haycock JW, Kish SJ (1996) Striatal dopamine nerve terminal markers in human, chronic methamphetamine users. Nat Med 2:699-703.
Zhu MY, Klimek V, Haycock JW, Ordway GA (2000) Quantitation of tyrosine hydroxylase protein in the locus coeruleus from postmortem human brain. J Neurosci Meth 99:37-44.
Zhu MY, Klimek V, Dilley GE, Haycock JW, Stockmeier C, Overholser JC, Meltzer HY, Ordway GA (1999) Elevated levels of tyrosine hydroxylase in the locus coeruleus in major depression. Biol Psychiatry 46:1275-1286.