Datasheet for ABIN6656084

anti-SLC6A3 antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	SLC6A3
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC6A3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Dopamine Transporter Antibody
Immunogen:	Anti-Dopamine Transporter Antibody was produced in rabbit by repeated immunizations with the synthetic peptide corresponding to the intracellular C-terminal region conjugated to KLH.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-Dopamine Transporter antibody is directed against human dopamine transporter.
Purification:	Anti-Dopamine Transporter antibody was affinity purified from monospecific antiserum by immunoaffinity purification.

Target Details

Target:	SLC6A3

Target Details

Alternative Name:	Dopamine Transporter (SLC6A3 Products)
Background:	Synonyms: Sodium-dependent dopamine transporter, DA transporter, DAT, Solute carrier family 6 member 3 Background: Dopamine Transporter Antibody detects dopamine transporter (DAT) which 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. Levels of DAT protein expression are altered by chronic drug administration. Anti-Dopamine Transporter Antibody is ideal for investigators involved in Neuroscience. Gene Name: SLC6A3
Gene ID:	6531
NCBI Accession:	NP_001035
UniProt:	Q01959
Pathways:	Dopaminergic Neurogenesis

Application Details

Application Notes:	ELISA_Dilution: 1:10,000 Immunohistochemistry_Dilution: 1:1000 Western_Blot_Dilution: 1:1000
Comment:	Suggested Applications: enough antibody in each unit for 10 mini-western blots at suggested dilution Anti-Dopamine Transporter Antibody is tested for use in ELISA, Western Blotting and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 88 kDa corresponding to DAT proteins in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5 Stabilizer: 0.1 mg/mL Bovine Serum Albumin (BSA) - IgG and Protease free, 50 % (v/v) Glycerol
Storage:	4 °C,-20 °C

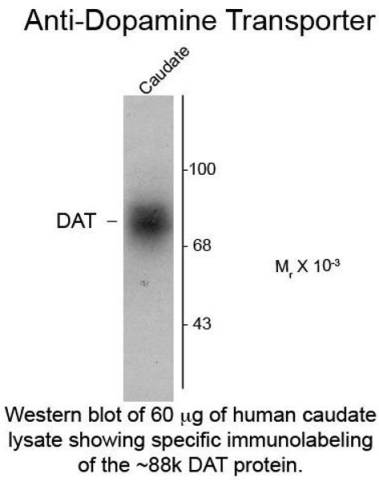
Handling

Storage Comment:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	Russo, Zovko, Nazari, Steenland, Ramsey, Salahpour: "Evaluation and Validation of Commercially Available Dopamine Transporter Antibodies." in: **eNeuro**, Vol. 10, Issue 5, (2023) (PubMed).

Images



Western blot of 60 µg of human caudate lysate showing specific immunolabeling of the ~88k DAT protein.

Western Blotting

Image 1. Western blot of Dopamine Transporter C-Terminus Human Antibody Western Blot of Rabbit Anti-Dopamine Transporter C-Terminus Human Antibody. Lane 1: human caudate lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Dopamine Transporter antibody at 1:400 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~88kDa/~88kDa for DAT protein. Other band(s): none.