

For Research Use Only

DAT Polyclonal antibody

Catalog Number: 22524-1-AP **40 Publications**



Basic Information

Catalog Number: 22524-1-AP	GenBank Accession Number: BC133003	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 6531	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: solute carrier family 6 (neurotransmitter transporter, dopamine), member 3	IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG	Calculated MW: 620 aa, 68 kDa	
Immunogen Catalog Number: AG18297	Observed MW: 68 kDa	

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue,

IP : mouse brain tissue,

IHC : mouse brain tissue,

IF : mouse brain tissue,

Background Information

DAT, also name as SLC6A3, is dopamine transporter which is a member of the sodium- and chloride- dependent neurotransmitter transporter family. Dopamine(DA) released from neurons is cleared by the DA transporter (DAT). Altered dopaminergic signaling is linked to multiple neuropsychiatric disorders, such as attention deficit hyperactive disorder, mood disorders, schizophrenia, autism and so on (PMID:30755521). 22524-1-AP can detect 70-80kDa band, which is consistent with the report (PMID:12746456).

Notable Publications

Author	Pubmed ID	Journal	Application
Hideaki Kuge	32963038	J Lipid Res	WB,IF
Mo Xu	31535395	J Neurosci Res	
Beatriz Franco	34651324	J Neurosci Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

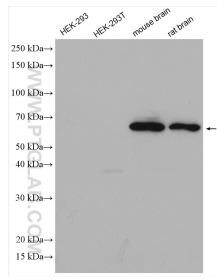
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

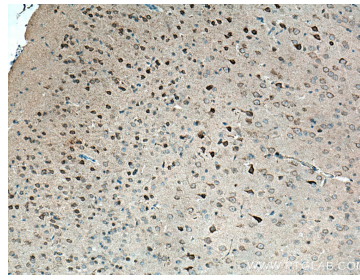
E: proteintech@ptglab.com
W: ptglab.com

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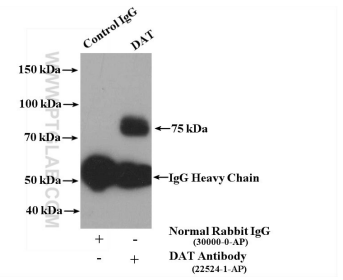
Selected Validation Data



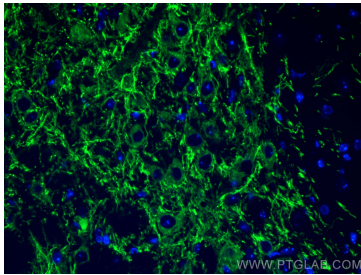
Various lysates were subjected to SDS PAGE followed by western blot with 22524-1-AP (DAT antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 22524-1-AP (DAT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP sample and control were subjected to SDS PAGE followed by western blot with 22524-1-AP (DAT antibody) at dilution of 1:500. 4000ug mouse brain tissue lysate and 4ug antibodies were mixed in the IP experiment.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using DAT antibody (22524-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).