

For Research Use Only

# DRD1 Polyclonal antibody, PBS Only

Catalog Number: 17934-1-PBS

Featured Product



## Basic Information

Catalog Number:	17934-1-PBS	GenBank Accession Number:	BC074978	Purification Method:
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	1812	Antigen affinity purification
Source:	Rabbit	UNIPROT ID:	P21728	
Isotype:	IgG	Full Name:	dopamine receptor D1	
Immunogen Catalog Number:	AG12366	Calculated MW:	446 aa, 49 kDa	
		Observed MW:	50-75 kDa	

## Applications

### Tested Applications:

WB, IF-Fro, ELISA

### Species Specificity:

human, mouse, rat

## Background Information

Dopamine is a neurotransmitter that plays a crucial role in physical and mental health, such as cardiovascular, hormonal, renal, and central nervous systems (PMID: 29220802). Five subtypes of mammalian dopamine receptors are grouped into two classes, the D1- and D2-like classes. The D1-like class includes D1 and D5 receptors whereas the D2-like class includes D2, D3, D4 subtypes (PMID: 9457173). Dopamine receptor D1 (DRD1) is the most abundant form of dopamine receptor in the central nervous system. DRD1 stimulates adenylate cyclase, modulates D2 receptor activity, regulates neuron growth and differentiation, and mediates several behavioral responses (PMID: 1977312). DRD1 has a calculated molecular weight of 49 kDa, larger apparent molecular weight of 60-80 kDa may be due to glycosylation (PMID: 1281547; 23821371).

## Storage

### Storage:

Store at -80°C.

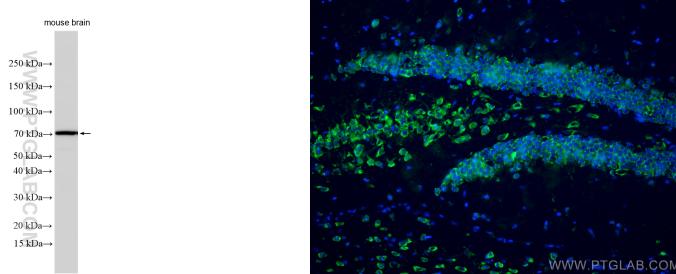
### Storage Buffer:

PBS only, pH7.3

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

This product is exclusively available under Proteintech  
Group brand and is not available to purchase from any  
other manufacturer.

## Selected Validation Data



Mouse brain lysates were subjected to SDS PAGE followed by western blot with 17934-1-AP (DRD1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17934-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using DRD1 antibody (17934-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00015-2). This data was developed using the same antibody clone with 17934-1-PBS in a different storage buffer formulation.