

For Research Use Only

DRD5 Polyclonal antibody

Catalog Number: 20310-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

20310-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14145

GenBank Accession Number:

BC009748

GeneID (NCBI):

1816

UNIPROT ID:

P21918

Full Name:

dopamine receptor D5

Calculated MW:

477 aa, 53 kDa

Observed MW:

50-53 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:3000

IHC: 1:50-1:500

FC (Intra): 0.80 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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, rat brain tissue

IHC : mouse brain tissue,

FC (Intra) : SH-SY5Y cells,

Background Information

DRD5, is a G-protein coupled receptor and involved in diversified physiological and pathological processes. this receptor stimulates adenylyl cyclase activity and is expressed in the limbic area of the mammalian brain(PMID:14699430). Studies have shown that DRD5 is highly expressed in colonic macrophages and DRD5 deficiency exacerbates DSS(dextran sodium sulfate)-induced colitis(PMID:34001860). in addition, DRD5 agonists were potent inhibitors of pituitary tumor growth(PMID:28613975).

Notable Publications

Author	Pubmed ID	Journal	Application
Gongliang Zhang	31491076	ACS Chem Neurosci	WB
Magdalena Kurnik-Lucka	34884737	Int J Mol Sci	IHC
Lu Liu	34001860	Cell Death Dis	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

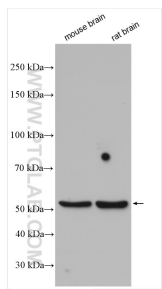
For technical support and original validation data for this product please contact:

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

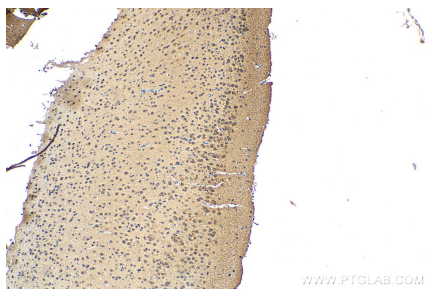
E: proteintech@ptglab.com
W: ptglab.com

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

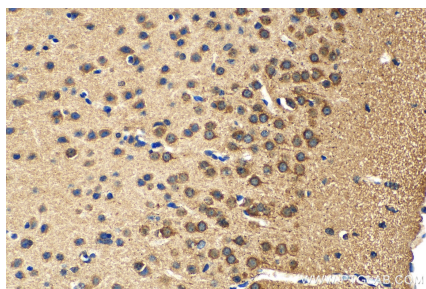
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20310-1-AP (DRD5 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



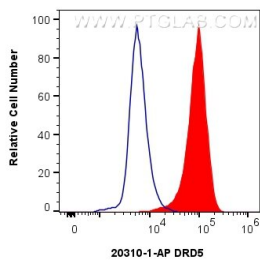
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20310-1-AP (DRD5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20310-1-AP (DRD5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 20310-1-AP (DRD5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



1x10⁶ SH-SY5Y cells were intracellularly stained with 0.8 ug DRD5 Polyclonal antibody (20310-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).