

For Research Use Only

DRD5 Polyclonal antibody

Catalog Number: 20310-1-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

20310-1-AP

Size:

600 ug/ml

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

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,

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

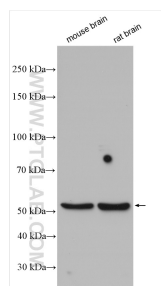
T: 4006900926

E: Proteintech-CN@ptglab.com

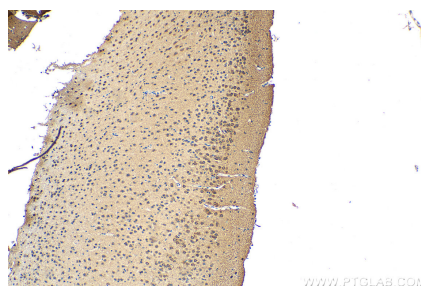
W: ptgcn.com

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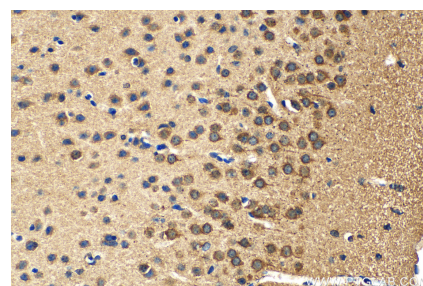
Selected Validation Data



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.



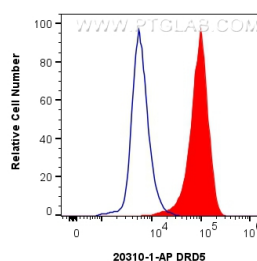
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20310-1-AP (DRD5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



1×10^6 SH-SY5Y cells were intracellularly stained with 0.8 μ g DRD5 Polyclonal antibody (20310-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.8 μ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).