

For Research Use Only

PDE7B Polyclonal antibody

Catalog Number: 17771-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:

17771-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12184

GenBank Accession Number:

BC075082

GeneID (NCBI):

27115

UNIPROT ID:

Q9NP56

Full Name:

phosphodiesterase 7B

Calculated MW:

450 aa, 52 kDa

Observed MW:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, 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 : HeLa cells, mouse brain tissue

IHC : mouse brain tissue,

IF/ICC : HepG2 cells,

Background Information

PDE7B(cAMP-specific 3',5'-cyclic phosphodiesterase 7B) belongs to the cyclic nucleotide phosphodiesterase family and PDE7 subfamily, which regulate intracellular levels of cAMP and cGMP, cyclic nucleotides that play important roles as second messengers in multiple physiologic processes. PDE7B gene is expressed predominantly in the brain and in a number of other tissues including liver, heart, thyroid glands, and skeletal muscle, but not expressed in blood leukocytes (PMID:12388353).

Notable Publications

Author	Pubmed ID	Journal	Application
Jose A Morales-Garcia	25457552	Neurobiol Aging	WB, IF
Jose A Morales-Garcia	25925836	Stem Cells Transl Med	WB
Jose A Morales-Garcia	27538853	Stem Cells	WB

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

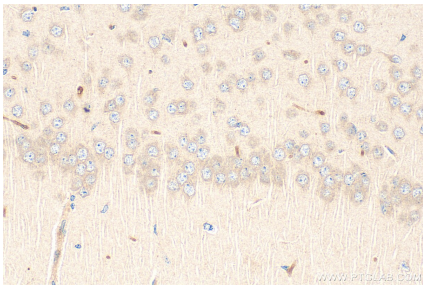
For technical support and original validation data for this product please contact:

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

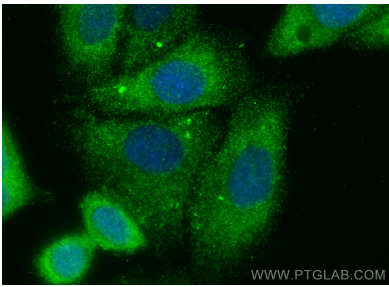
E: proteintech@ptglab.com
W: ptglab.com

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

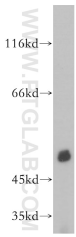
Selected Validation Data



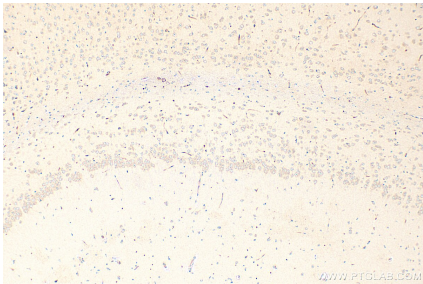
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17771-1-AP (PDE7B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PDE7B antibody (17771-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



HeLa cells were subjected to SDS PAGE followed by western blot with 17771-1-AP (PDE7B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17771-1-AP (PDE7B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).