

For Research Use Only

DARPP32/PPP1R1B Polyclonal antibody



Catalog Number: 10748-1-AP

3 Publications

Basic Information

Catalog Number: 10748-1-AP	GenBank Accession Number: BC001519	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 84152	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 1B	
Isotype: IgG	Calculated MW: 23 kDa	
Immunogen Catalog Number: AG1216	Observed MW: 32 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, mouse, rat

Cited Species:

mouse

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IHC : mouse brain tissue, rat brain tissue

IF : mouse brain tissue,

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

Background Information

Dopamine- and cAMP-regulated neuronal phosphoprotein (DARPP32), also known as protein phosphatase 1 regulatory subunit 1B (PPP1R1B), is a substrate of cAMP-dependent protein kinase (PKA) enriched in dopamine-innervated brain areas. Overexpression of DARPP32 has been shown to block gefitinib-induced apoptosis in gastric tumors by promoting EGFR and ERBB3 heterodimerization (PMID: 21741919). DARPP32 also drives gefitinib-refractory lung tumor growth through similar ERBB3-mediated resistance mechanisms (PMID: 34675407). The molecular weight of DARPP32 is about 32 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiong Yang	33214696	Acta Pharmacol Sin	WB
Sheng Chen	26122704	CNS Neurosci Ther	IF
Heng Ai	37979890	Free Radic Biol Med	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

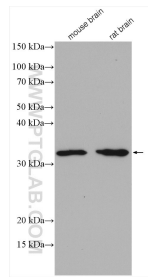
For technical support and original validation data for this product please contact:

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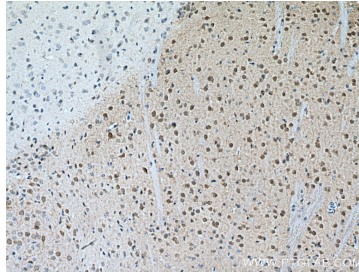
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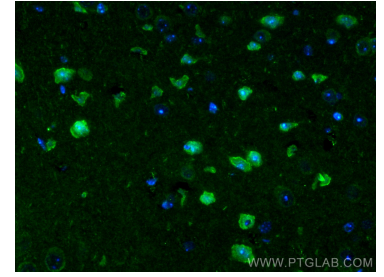
Selected Validation Data



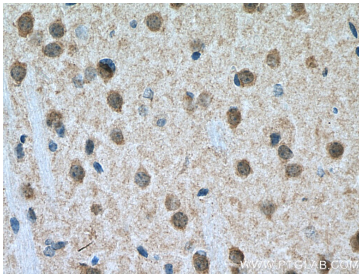
Various lysates were subjected to SDS PAGE followed by western blot with 10748-1-AP (DARPP32 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10748-1-AP (DARPP32 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using DARPP32/PPP1R1B antibody (10748-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10748-1-AP (DARPP32 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).