

For Research Use Only

PPP2R2A/B/C Monoclonal antibody



Catalog Number: 67783-1-Ig **1 Publications**

Basic Information

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|--|--|---|
| Catalog Number: 67783-1-Ig | GenBank Accession Number: BC031790 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 5521 | CloneNo.: 2E1D5 |
| Source: Mouse | Full Name: protein phosphatase 2 (formerly 2A), regulatory subunit B, beta isoform | Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 |
| Isotype: IgG1 | Calculated MW: 443 aa, 52 kDa | |
| Immunogen Catalog Number: AG30774 | Observed MW: 52 kDa | |

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

Human, Mouse, Rat, Pig, Rabbit

Cited Species:

human

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 : HepG2 cells, pig brain tissue, LNCaP cells, HeLa cells, Jurkat cells, K-562 cells, rabbit brain tissue, rat brain tissue, mouse brain tissue

IHC : mouse brain tissue, mouse cerebellum tissue

Background Information

The PPP2R2B gene encodes a deduced 443 amino acid protein of approximately 52 kDa, which is a brain-specific regulatory subunit B of protein phosphatase 2. PPP2R2B is a Subunit of PP2A, a highly conserved constitutive enzyme (PMID:11719278). PPP2R2B (Bβ) is an important regulator of protein phosphatase 2A (PP2A) activity in the brain. Through differential promoter usage and alternative splicing, two major isoforms Bβ1 and Bβ2 with divergent sub-cellular targeting N termini are produced. Bβ plays an important role in neuronal survival. It has 5 isoforms produced by alternative splicing. This antibody can recognize PPP2R2A, PPP2R2B, and PPP2R2C due to the immunogen of PPP2R2B having high homology with PPP2R2A and PPP2R2C.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------|-----------|----------------|-------------|
| Jiao Li | 35441157 | MedComm (2020) | 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

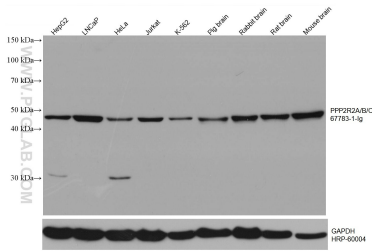
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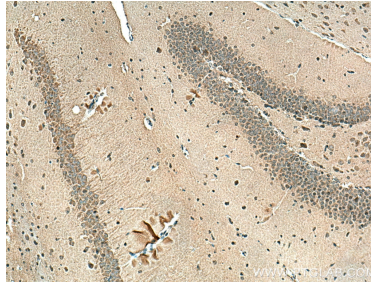
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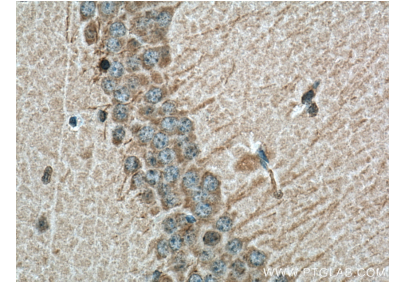
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67783-1-Ig (PPP2R2A/B/C antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67783-1-Ig (PPP2R2A/B/C 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 67783-1-Ig (PPP2R2A/B/C antibody) at dilution of 1:200 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).