For Research Use Only

## PPP2R2A/B/C Monoclonal antibody, PBS Only

Size: 1mg/ml

Catalog Number: 67783-1-PBS



**Purification Method:** 

Protein G purification

CloneNo.:

2E1D5

**Basic Information** 

Catalog Number:

67783-1-PBS

GeneID (NCBI): 5521 UNIPROT ID:

Source: UNIPROT ID:

Mouse Q00005

Isotype: Full Name:
IgG1 protein phosphatase 2 (formerly 2A),

Immunogen Catalog Number: regulatory subunit B, beta isoform

AG30774 Calculated MW:

443 aa, 52 kDa Observed MW: 52 kDa

BC031790

GenBank Accession Number:

**Applications** 

**Tested Applications:** 

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

## **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 (B  $\beta$ ) is an important regulator of protein phosphatase 2A (PP2A) activity in the brain. Through differential promoter usage and alternative splicing, two major isoforms B  $\beta$  1 and B  $\beta$  2 with divergent sub-cellular targeting N termini are produced. B  $\beta$  plays an important role in neuronal survival. It has 5 isoforms produced by alternative splicing. This antibody can recognize PPP2R2A and PPP2R2C due to the immunogen of PPP2R2B having high homology with PPP2R2A and PPP2R2C.

Storage

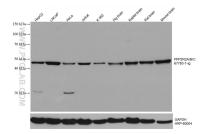
Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer: PBS Only

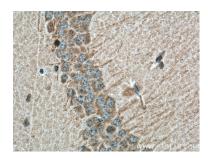
## **Selected Validation Data**



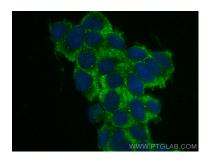
Various lysates were subjected to SDS PAGE followed by western blot with 67783-1-1g (PPP2R2A/B/C antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 67783-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 67783-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded 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). This data was developed using the same antibody clone with 67783-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using PPP2R2A/B/C antibody (67783-1-lg, Clone: 2E1D5) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 67783-1-PBS in a different storage buffer formulation.