

For Research Use Only

# CoraLite® Plus 488-conjugated PPP2R2A/B/C Monoclonal antibody

Catalog Number: CL488-67783



## Basic Information

<b>Catalog Number:</b> CL488-67783	<b>GenBank Accession Number:</b> BC031790	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5521	<b>CloneNo.:</b> 2E1D5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q00005	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> protein phosphatase 2 (formerly 2A), regulatory subunit B, beta isoform	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG30774	<b>Calculated MW:</b> 443 aa, 52 kDa	
	<b>Observed MW:</b> 52 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b> IF/ICC : SH-SY5Y cells,
<b>Species Specificity:</b> 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.

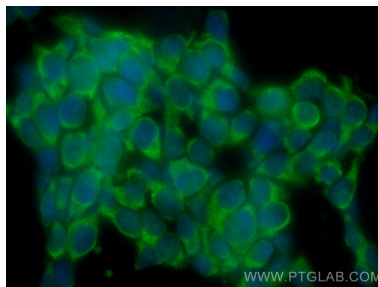
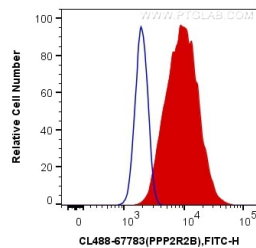
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human PPP2R2B (CL488-67783, Clone:2E1D5) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Coralite® Plus 488 PPP2R2A/B/C antibody (CL488-67783, Clone: 2E1D5 ) at dilution of 1:200.