

# PPP2R5B Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20958c

#### **Product Information**

**Application** WB, IF, E **Primary Accession** Q15173 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB51478 **Calculated MW** 57393

## **Additional Information**

Gene ID 5526

**Other Names** Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit beta

isoform, PP2A B subunit isoform B'-beta, PP2A B subunit isoform B56-beta, PP2A B subunit isoform PR61-beta, PP2A B subunit isoform R5-beta, PP2R5B

Target/Specificity This PPP2R5B antibody is generated from a rabbit immunized with a KLH

conjugated synthetic peptide between 466-500 amino acids from the

C-terminal region of human PPP2R5B.

**Dilution** WB~~1:1000 IF~~1:25 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** PPP2R5B Antibody (C-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

#### **Protein Information**

Name PPP2R5B

**Function** As the regulatory component of the serine/threonine-protein phosphatase

2A (PP2A) holoenzyme, modulates substrate specificity, subcellular localization, and responsiveness to phosphorylation. The phosphorylated form mediates the interaction between PP2A and AKT1, leading to AKT1

dephosphorylation.

Cellular Location Cytoplasm.

**Tissue Location** Highest expression in brain.

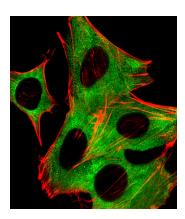
# **Background**

The B regulatory subunit might modulate substrate selectivity and catalytic activity, and also might direct the localization of the catalytic enzyme to a particular subcellular compartment. The phosphorylated form mediates the interaction between AKT1 and PP2A phosphatase leading to dephosphorylation of AKT1 on the 'Thr-308' and 'Ser-373' residues.

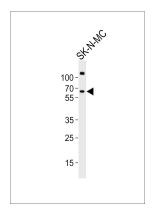
## References

McCright B., et al.J. Biol. Chem. 270:26123-26128(1995). Zolnierowicz S., et al.Biochem. J. 317:187-194(1996). McCright B., et al.J. Biol. Chem. 271:22081-22089(1996). Kitajima T.S., et al.Nature 441:46-52(2006). Rodgers J.T., et al.Mol. Cell 41:471-479(2011).

# **Images**



Fluorescent image of SH-SY5Y cells stained with PPP2R5B Antibody (C-term)(Cat#AP20958c). AP20958c was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Western blot analysis of lysate from SK-N-MC cell line, using PPP2R5B Antibody (C-term)(Cat. #AP20958c). AP20958c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.