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PPP1R3B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18235b

Product Information

Application	WB, E
Primary Accession	Q86XI6
Other Accession	NP_078883.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37605
Calculated MW	32695
Antigen Region	205-231

Additional Information

Gene ID	79660
Other Names	Protein phosphatase 1 regulatory subunit 3B, Hepatic glycogen-targeting protein phosphatase 1 regulatory subunit GL, Protein phosphatase 1 regulatory subunit 4, PP1 subunit R4, Protein phosphatase 1 subunit GL, PTG, PPP1R3B, PPP1R4
Target/Specificity	This PPP1R3B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 205-231 amino acids from the C-terminal region of human PPP1R3B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	PPP1R3B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPP1R3B

Synonyms	PPP1R4
Function	Acts as a glycogen-targeting subunit for phosphatase PP1. Facilitates interaction of the PP1 with enzymes of the glycogen metabolism and regulates its activity. Suppresses the rate at which PP1 dephosphorylates (inactivates) glycogen phosphorylase and enhances the rate at which it activates glycogen synthase and therefore limits glycogen breakdown. Its activity is inhibited by PYGL, resulting in inhibition of the glycogen synthase and glycogen phosphorylase phosphatase activities of PP1. Dramatically increases basal and insulin-stimulated glycogen synthesis upon overexpression in hepatocytes (By similarity).
Tissue Location	Highly expressed in the liver and, at lower levels, in skeletal muscle, including in vastus lateralis, gastrocnemius and soleus (at protein level). Highest mRNA levels are observed in skeletal muscle, and only moderate levels in liver and heart. Weak expression in placenta and lung.

Background

The protein phosphatase-1 (PP1) catalytic subunit (PPP1CA; MIM 176875) is regulated by targeting subunits, such as PP1R3B. PP1R3B suppresses the rate at which PP1 dephosphorylates (i.e., inactivates) glycogen phosphorylase (see PYGL; MIM 232700) and enhances the rate at which it activates glycogen synthase (see GYS2; MIM 138571) (Doherty et al., 1995 [PubMed 7498521]).[supplied by OMIM].

References

Montori-Grau, M., et al. Biochem. J. 405(1):107-113(2007)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Ceulemans, H., et al. Bioessays 24(4):371-381(2002)
Doherty, M.J., et al. FEBS Lett. 375(3):294-298(1995)

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