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PPP1R3B Rabbit pAb

Catalog # AP97715

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q86XI6
Other Accession	Q86XI6
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32695
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PPP1R3B
Epitope Specificity	151-250/285
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 CBM21 (carbohydrate binding type-21) domain.
SUBUNIT	Interacts with glycogen, PPP1CC catalytic subunit of PP1 and PYGL. Associates with glycogen particles. Forms complexes withdebranching enzyme, glycogen phosphorylase, glycogen synthase and phosphorylase kinase which is necessary for its regulation of PP1 activity (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes the catalytic subunit of the serine/theonine phosphatase, protein phosphatase-1. The encoded protein is expressed in liver and skeletal muscle tissue and may be involved in regulating glycogen synthesis in these tissues. This gene may be a involved in type 2 diabetes and maturity-onset diabetes of the young. Alternate splicing results in multiple transcript variants that encode the same protein.[provided by RefSeq, Jan 2011]

Additional Information

Gene ID	79660
Other Names	GL; PPP1R4; PTG; 6430576E21; PPR3B_BOVIN; PPP1R3B; PPR3B_HUMAN; Hepatic glycogen-targeting protein phosphatase 1 regulatory subunit GL; Protein phosphatase 1 regulatory subunit 4 (PP1 subunit R4); Protein phosphatase 1 subunit GL (PTG); PPR3B_MOUSE; PPR3B_RAT; 33 kDa glycogen-binding protein; Protein phosphatase 1 subunit GL; protein phosphatase 1 regulatory subunit 3B; protein phosphatase 1, regulatory (inhibitor) subunit 3B; protein phosphatase 1, regulatory subunit 3B; PP1 subunit R4; hepatic glycogen-targeting subunit, G(L)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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