

PPP1R3B Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18235b**Specification**

PPP1R3B Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q86XI6](#)**PPP1R3B Antibody (C-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PPP1R3B Antibody (C-term) Blocking Peptide - 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.

PPP1R3B Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PPP1R3B Antibody (C-term) Blocking Peptide - Images

PPP1R3B Antibody (C-term) Blocking Peptide - 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].

PPP1R3B Antibody (C-term) Blocking Peptide - 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)