

PPR3D Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13440a

Specification

PPR3D Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O95685](#)

PPR3D Antibody (N-term) Blocking peptide - Additional Information

Gene ID 5509

Other Names

Protein phosphatase 1 regulatory subunit 3D, Protein phosphatase 1 regulatory subunit 6, PP1 subunit R6, Protein phosphatase 1-binding subunit R6, PPP1R3D, PPP1R6

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13440a was selected from the N-term region of PPR3D. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PPR3D Antibody (N-term) Blocking peptide - Protein Information

Name PPP1R3D

Synonyms PPP1R6

Function

Seems to act as a glycogen-targeting subunit for PP1. PP1 is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis.

Tissue Location

Expressed in all tissues tested. High expression in skeletal muscle and heart

PPR3D Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PPR3D Antibody (N-term) Blocking peptide - Images

PPR3D Antibody (N-term) Blocking peptide - Background

Phosphorylation of serine and threonine residues in proteins is a crucial step in the regulation of many cellular functions ranging from hormonal regulation to cell division and even short-term memory. The level of phosphorylation is controlled by the opposing actions of protein kinases and protein phosphatases. Protein phosphatase 1 (PP1) is 1 of 4 major serine/threonine-specific protein phosphatases which have been identified in eukaryotic cells. PP1 associates with various regulatory subunits that dictate its subcellular localization and modulate its substrate specificity. Several subunits that target PP1 to glycogen have been identified. This gene encodes a glycogen-targeting subunit of PP1.

PPR3D Antibody (N-term) Blocking peptide - References

Wu, C., et al. Proteomics 7(11):1775-1785(2007)
Deloukas, P., et al. Nature 414(6866):865-871(2001)
Armstrong, C.G., et al. FEBS Lett. 418 (1-2), 210-214 (1997)
Allen, P.B., et al. Proc. Natl. Acad. Sci. U.S.A. 94(18):9956-9961(1997)