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PPP1R14A Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14502a

Specification

PPP1R14A Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q96A00

PPP1R14A Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 94274

Other Names
Protein phosphatase 1 regulatory subunit 14A, 17 kDa PKC-potentiated inhibitory protein of PP1, Protein kinase C-potentiated inhibitor protein of 17 kDa, CPI-17, PPP1R14A, CPI17, PPP1INL

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.

PPP1R14A Antibody (N-term) Blocking Peptide - Protein Information

Name PPP1R14A

Synonyms CPI17, PPP1INL

Function
Inhibitor of PPP1CA. Has over 1000-fold higher inhibitory activity when phosphorylated, creating a molecular switch for regulating the phosphorylation status of PPP1CA substrates and smooth muscle contraction.

Cellular Location
Cytoplasm.

Tissue Location
Isoform 1 is detected in aorta and testis. Isoform 2 is detected in aorta.

PPP1R14A Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PPP1R14A Antibody (N-term) Blocking Peptide - Images

PPP1R14A Antibody (N-term) Blocking Peptide - Background

PPP1R14A is a phosphorylation-dependent inhibitor ofsmooth muscle myosin phosphatase (see MIM 603768). Inhibition leadsto increased myosin phosphorylation and enhances smooth musclecontraction in the absence of increased intracellular Ca(2+)concentration.

PPP1R14A Antibody (N-term) Blocking Peptide - References

Chiba, Y., et al. Biochem. Biophys. Res. Commun. 401(3):487-490(2010)Aslam, M., et al. Cardiovasc. Res. 87(2):375-384(2010)Gudmundsson, J., et al. Nat. Genet. 41(10):1122-1126(2009)Thurneysen, C., et al. Lung Cancer 64(2):140-147(2009)Morin, C., et al. Am. J. Respir. Cell Mol. Biol. 39(6):638-643(2008)