

PPP1R10 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP14051c**Specification**

PPP1R10 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q96QC0](#)**PPP1R10 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 5514**Other Names**

Serine/threonine-protein phosphatase 1 regulatory subunit 10, MHC class I region proline-rich protein CAT53, PP1-binding protein of 114 kDa, Phosphatase 1 nuclear targeting subunit, Protein FB19, p99, PPP1R10, CAT53, FB19, PNUTS

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14051c was selected from the Center region of PPP1R10. 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.

PPP1R10 Antibody (Center) Blocking peptide - Protein Information**Name** PPP1R10**Synonyms** CAT53, FB19, PNUTS**Function**

Scaffold protein which mediates the formation of the PTW/PP1 phosphatase complex by providing a binding platform to each component of the complex. The PTW/PP1 phosphatase complex plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Mediates interaction of WDR82 and PPP1CA. Inhibitor of PPP1CA and PPP1CC phosphatase activities. Has inhibitory activity on PPP1CA only when phosphorylated. Binds to mRNA, single-stranded DNA (ssDNA), poly(A) and poly(G) homopolymers (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00649, ECO:0000269|PubMed:9450550}.

Note=Found in discrete nucleoplasmic bodies and within nucleoli. Associates with chromatin during interphase, excluded from condensed chromosomes during early mitosis and is reloaded onto chromosomes at the late telophase (By similarity)

Tissue Location

Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

PPP1R10 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PPP1R10 Antibody (Center) Blocking peptide - Images**PPP1R10 Antibody (Center) Blocking peptide - Background**

This gene encodes a protein with similarity to a rat protein that has an inhibitory effect on protein phosphatase-1(PP1). The rat protein localizes to the nucleus and colocalizes with chromatin at distinct phases during mitosis. This gene lies within the major histocompatibility complex class I region on chromosome 6.

PPP1R10 Antibody (Center) Blocking peptide - References

Lee, J.H., et al. J. Biol. Chem. 285(32):24466-24476(2010) De Leon, G., et al. Int. J. Oncol. 36(5):1269-1275(2010) Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :Correia, A.P., et al. Neurosci. Lett. 457(3):129-132(2009) Lee, S.J., et al. Exp. Mol. Med. 41(3):189-200(2009)