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PPP1R10 / PNUTS Antibody
Rabbit Polyclonal Antibody
Catalog # ALS14835

Specification

PPP1R10 / PNUTS Antibody - Product Information

Application	**WB**
Primary Accession	Q96QC0
Reactivity	**Human, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**99kDa KDa**

PPP1R10 / PNUTS Antibody - 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

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
PPP1R10 / PNUTS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

PPP1R10 / PNUTS Antibody - 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.

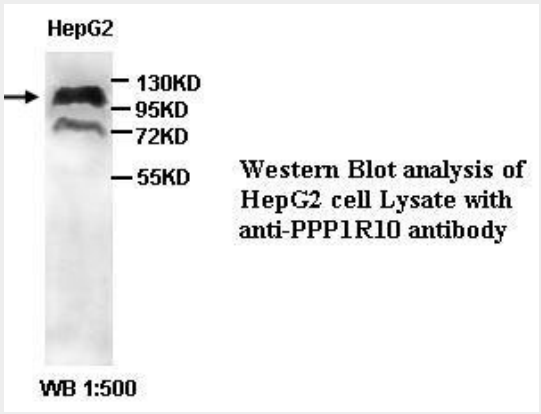
Volume
50 µl

PPP1R10 / PNUTS Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PPP1R10 / PNUTS Antibody - Images



Western Blot analysis of HepG2 cell Lysate with anti-PPP1R10 antibody

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PPP1R10 / PNUTS Antibody - Background

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).

PPP1R10 / PNUTS Antibody - References

Totaro A.,et al.Biochem. Biophys. Res. Commun. 250:555-557(1998).
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Shiina S.,et al.Submitted (DEC-2004) to the EMBL/GenBank/DDBJ databases.
Shiina T.,et al.Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
Mungall A.J.,et al.Nature 425:805-811(2003).