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PPP1CB Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15279

Specification

PPP1CB Antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	P62140
Other Accession	NM_002709, NP_002700
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Goat, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Goat, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**37kDa KDa**

PPP1CB Antibody - C-terminal region - Additional Information

Gene ID 5500

Alias Symbol	**MGC3672, PP-1B, PP1beta, PPP1CD**

Other Names
Serine/threonine-protein phosphatase PP1-beta catalytic subunit, PP-1B, PPP1CD, 3.1.3.16, 3.1.3.53, PPP1CB

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-PPP1CB antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
PPP1CB Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

PPP1CB Antibody - C-terminal region - Protein Information

Name PPP1CB

Function
Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase (PP1) is essential for cell division, it participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. Component of the PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into

interphase. In balance with CSNK1D and CSNK1E, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. May dephosphorylate CSNK1D and CSNK1E. Dephosphorylates the 'Ser-418' residue of FOXP3 in regulatory T-cells (Treg) from patients with rheumatoid arthritis, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:23396208).

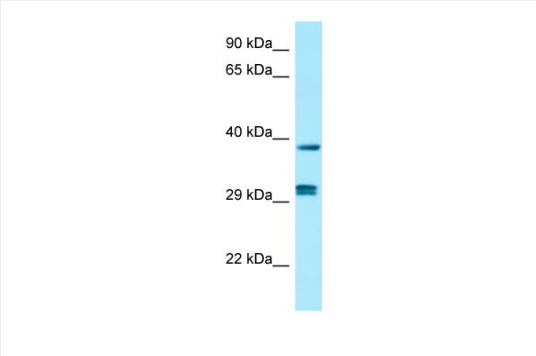
Cellular Location
Cytoplasm. Nucleus. Nucleus, nucleoplasm. Nucleus, nucleolus. Note=Highly mobile in cells and can be relocalized through interaction with targeting subunits. In the presence of PPP1R8 relocalizes from the nucleus to nuclear speckles.

PPP1CB Antibody - C-terminal region - 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

PPP1CB Antibody - C-terminal region - Images



WB Suggested Anti-PPP1CB Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Kidney

PPP1CB Antibody - C-terminal region - References

Barker H.M.,et al.Biochim. Biophys. Acta 1220:212-218(1994).
Prochazka M.,et al.Diabetologia 38:461-466(1995).
Verin A.D.,et al.J. Cell. Biochem. 79:113-125(2000).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.