Product Name: PP1C alpha/beta Rabbit Monoclonal

Antibody

Catalog #: AMRe02464



Summary

Production Name PP1C alpha/beta Rabbit Monoclonal Antibody

Description Recombinant Rabbit Monoclonal antibody

Host Rabbit

Application WB,IHC-P,IP

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal Antibody

Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% **Buffer**

BSA

Purification Affinity Purified

Immunogen

Alternative Names

Gene Name PPP1CA

Alpha isoform serine threonine protein phosphatase PP1alpha 1 catalytic subunit;

Catalytic subunit; PP1A; PP1A_HUMAN; PP1alpha; PP2C ALPHA; PP2CA; Ppp1ca;

Protein Phosphatase 2C Alpha Isoform; Serine threonine protein phosphatase PP1

alpha catalytic subunit; Serine threonine protein phosphatase PP1 alpha catalytic

subunit protein phosphatase 1; Serine/threonine-protein phosphatase PP1-alpha

catalytic subunit.

 Gene ID
 5499

 SwissProt ID
 P62136

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Dilution Ratio WB: 1/500-1/1000 IHC: 1/50-1/100 IP: 1/20

Molecular Weight Calculated MW: 38 kDa; Observed MW: 38 kDa

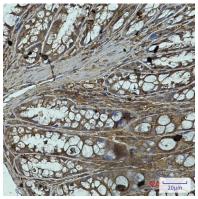
Background

Protein phosphatase that associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca2+/calmodulin dependent protein kinase II. 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. Regulates NEK2 function in terms of kinase activity and centrosome number and splitting, both in the presence and absence of radiation-induced DNA damage. Regulator of neural tube and optic fissure closure, and enteric neural crest cell (ENCCs) migration during development. 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). Dephosphorylates CENPA (PubMed:25556658). Dephosphorylates the 'Ser-139' residue of ATG16L1 causing dissociation of ATG12-ATG5-ATG16L1 complex, thereby inhibiting autophagy (PubMed:26083323).

Research Area

Signal Transduction

Image Data



Immunohistochemistry analysis of paraffin-embedded mouse colon using PP1C alpha/beta antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

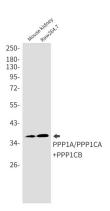
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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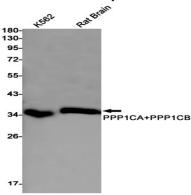
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Western blot analysis of PPP1A/PPP1CA+PPP1CB in mouse kidney, Raw264.7 lysates using PPP1A/PPP1CA+PPP1CB antibody.



Western blot analysis of PPP1CA+PPP1CB in K562, rat Brain lysates using PPP1CA+PPP1CB antibody

Note

For research use only.