Product Name: PP1α (phospho Thr320) Rabbit

Polyclonal Antibody Catalog #: APRab05294



Summary

Production Name PP1α (phospho Thr320) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application ELISA,IHC,WB **Reactivity** Human,Mouse,Rat

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

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

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name PPP1CA

PPP1CA; PPP1A; Serine/threonine-protein phosphatase PP1-alpha catalytic subunit;

Alternative Names
PP-1A

FF-IA

Gene ID 5499.0

P62136.The antiserum was produced against synthesized peptide derived from human **SwissProt ID**

PP1-alpha around the phosphorylation site of Thr320. AA range:281-330

Application

Dilution Ratio WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000...

Molecular Weight

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Background

The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in the end stage of heart failure. Studies in both human and mice suggest that PP1 is an important regulator of cardiac function. Mouse studies also suggest that PP1 functions as a suppressor of learning and memory. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],catalytic activity: A phosphoprotein + H(2)O = a protein + phosphate.,caution: The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data, cofactor:Binds 1 iron ion per subunit, cofactor:Binds 1 manganese ion per subunit, enzyme regulation:The phosphatase activity of the PPP1R15A-PP1 complex toward EIF2S1 is specifically inhibited by Salubrinal, a drug that protects cells from endoplasmic reticulum stress., function: 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 Ca(2+)/calmodulin dependent protein kinase II., online information: The things we forget -Issue 32 of March 2003, similarity: Belongs to the PPP phosphatase family, similarity: Belongs to the PPP phosphatase family, PP-1 subfamily, subunit: PP1 comprises a catalytic subunit, PPP1CA, PPP1CB or PPP1CC, which is folded into its native form by inhibitor 2 and glycogen synthetase kinase 3, and then complexed to one or several targeting or regulatory subunits. PPP1R12A, PPP1R12B and PPP1R12C mediate binding to myosin. PPP1R3A, PPP1R3B, PPP1R3C and PPP1R3D mediate binding to glycogen. Interacts with PPP1R9A and PPP1R9B. Part of a complex containing PPP1R15B, PP1 and NCK1/2 (By similarity). Interacts with PPP1R7. PPP1R15A and PPP1R15B mediate binding to EIF2S1. Interacts with HHV-1 ICP34.5..

Research Area

Oocyte meiosis; Vascular smooth muscle contraction; Focal adhesion; Long-term potentiation; Regulates Actin and Cytoskeleton; Insulin Receptor;

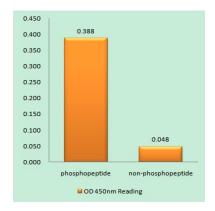
Image Data

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

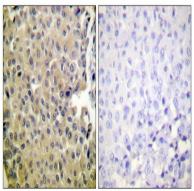
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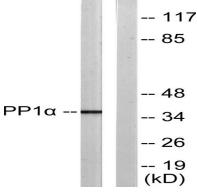


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PP1-alpha (Phospho-Thr320) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PP1-alpha (Phospho-Thr320)

Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of PP1-alpha (Phospho-Thr320) Antibody. The lane on the right is blocked with the PP1-alpha (Phospho-Thr320) peptide.

Note

For research use only.