

For Research Use Only

Phospho-PPP1CA (Thr320) Polyclonal antibody

Catalog Number: 29874-1-AP

1 Publications



Basic Information

Catalog Number:

29874-1-AP

Size:

100ul, Concentration: 250 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC001888

GeneID (NCBI):

5499

UNIPROT ID:

P62136

Full Name:

protein phosphatase 1, catalytic subunit, alpha isoform

Calculated MW:

330 aa, 38 kDa

Observed MW:

37 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

mouse

Positive Controls:

WB: Calyculin A treated HeLa cells, Calyculin A treated Jurkat cells

Background Information

Protein phosphatase associates with over 200 regulatory proteins to form highly specific holoenzymes which dephosphorylate hundreds of biological targets. Type 1 protein phosphatase (PP1), a serine/threonine phosphatase, is essential for cell division and participates in the regulation of glycogen metabolism, muscle contractility, and protein synthesis. Four isoforms of PP1 have been characterized: PP1 α , PP1 δ , PP1 γ 1 and PP1 γ 2 (PMID: 9835651). It has been illustrated that PP1 dephosphorylates Rb and cdc25 during mitosis (PMID: 8384581, PMID: 1392080). A cell cycle-dependent phosphorylation at Thr320 of PP1 α by cdc2 kinase inhibits PP1 α activity (PMID: 9122166).

Notable Publications

Author	Pubmed ID	Journal	Application
Wen Yin	39799115	Nat Commun	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

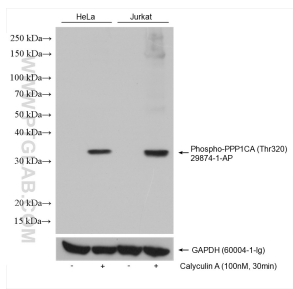
For technical support and original validation data for this product please contact:

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Selected Validation Data



Non-treated and Calyculin A treated various cells were subjected to SDS PAGE followed by western blot with 29874-1-AP (Phospho-PPP1CA (Thr320) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as the loading control.