

Phospho-PPP1CA-T320 Rabbit pAb

Catalog No.: AP0786

2 Publications

Basic Information

Observed MW

38kDa

Calculated MW

38kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P

Cross-Reactivity

Human, Mouse, Rat

Background

The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). This broadly expressed gene encodes the alpha subunit of the PP1 complex that associates with over 200 regulatory proteins to form holoenzymes which dephosphorylate their biological targets with high specificity. 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 suggest that PP1 is an important regulator of cardiac function and that PP1 deregulation is implicated in diabetes and multiple types of cancer. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB 1:500 - 1:2000

IHC-P 1:50 - 1:100

Immunogen Information

Gene ID

5499

Swiss Prot

P62136

Immunogen

A synthetic phosphorylated peptide around T320 of human PPP1CA (NP_002699.1).

Synonyms

PP1A; PP-1A; PPP1A; PP1alpha; Phospho-PPP1CA-T320

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

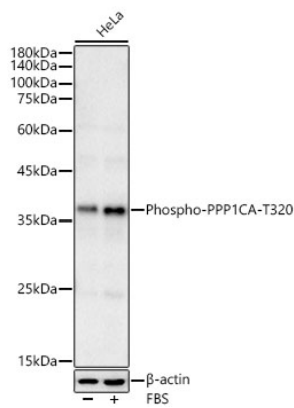
Affinity purification

Storage

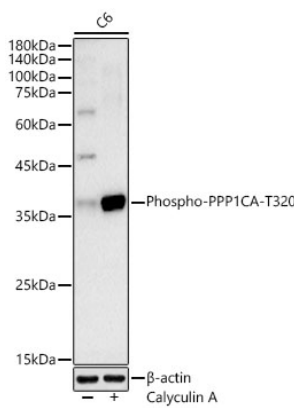
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

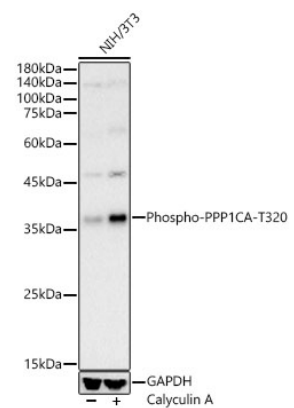
Validation Data



Western blot analysis of lysates from HeLa cells using Phospho-PPP1CA-T320 Rabbit pAb (AP0786) at 1:500 dilution. HeLa cells were treated by 10% FBS at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection:ECL Enhanced Kit (RM00021).
Exposure time: 30s.

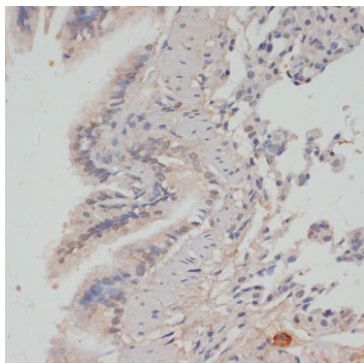


Western blot analysis of lysates from C6 cells using Phospho-PPP1CA-T320 Rabbit pAb (AP0786) at 1:500 dilution. C6 cells were treated by tunicamycin (2 µg/ml) for 8 hours.
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection:ECL Basic Kit (RM00020).
Exposure time: 60s.

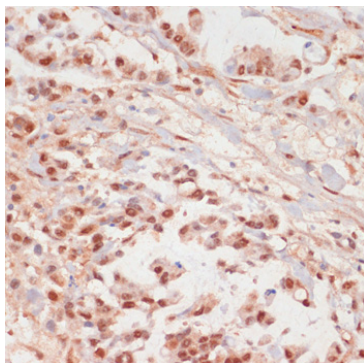


Western blot analysis of lysates from NIH/3T3 cells using Phospho-PPP1CA-T320 Rabbit pAb (AP0786) at 1:500 dilution. NIH/3T3 cells were treated by Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection:ECL Basic Kit (RM00020).
Exposure time: 60s.

Validation Data



Immunohistochemistry analysis of Phospho-PPP1CA-T320 in paraffin-embedded rat lung using Phospho-PPP1CA-T320 Rabbit pAb (AP0786) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-PPP1CA-T320 in paraffin-embedded human gastric cancer using Phospho-PPP1CA-T320 Rabbit pAb (AP0786) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.