

PP1 alpha monoclonal antibody

Catalog: MB66507

Host: Mouse

Reactivity: Human

BackGround:

Type 1 protein phosphatase (PP1), a serine/threonine phosphatase, is highly conserved in eukaryotic cells. Four isoforms of PP1 have been characterized: PP1 α , PP1 δ , PP1 γ 1 and PP1 γ 2. Involvement in cell cycle regulation is one of the biological functions of PP1. It has been illustrated that PP1 dephosphorylates Rb and cdc25 during mitosis. A cell cycle-dependent phosphorylation at Thr320 of PP1 α by cdc2 kinase inhibits PP1 α activity.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 38 kDa

Swiss-Prot:

P62136

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/100)

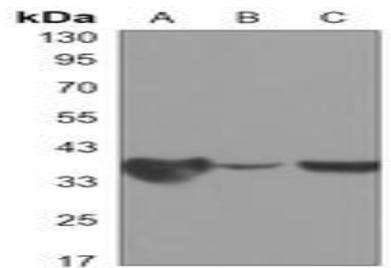
Storage&Stability:

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

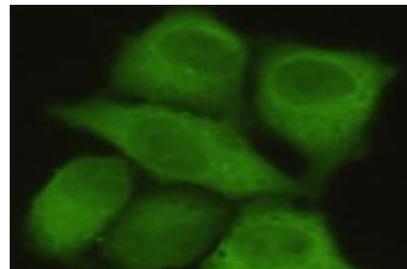
Specificity:

Recognizes endogenous levels of PP1 alpha protein.

DATA:



Western blot analysis of PP1 alpha expression in HepG2 (A), MCF7 (B), HeLa (C) whole cell lysates.



Immunofluorescent analysis of PP1 alpha staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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