

## PP1 alpha monoclonal antibody

Catalog: MB66487

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 $\alpha$ , PP1 $\delta$ , PP1 $\gamma$ 1 and PP1 $\gamma$ 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 $\alpha$  by cdc2 kinase inhibits PP1 $\alpha$  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), IHC (1/50 - 1/100), IF/ICC (1/50 - 1/100)

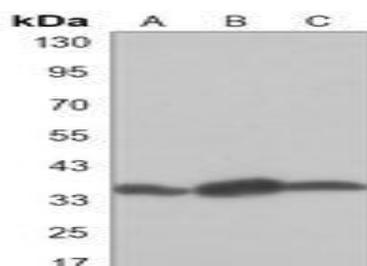
### Storage&Stability:

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

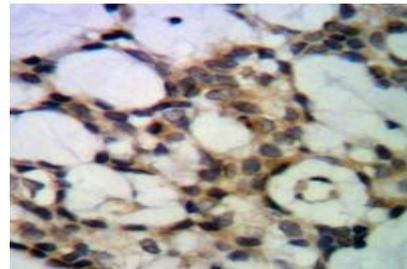
### Specificity:

Recognizes endogenous levels of PP1 alpha protein.

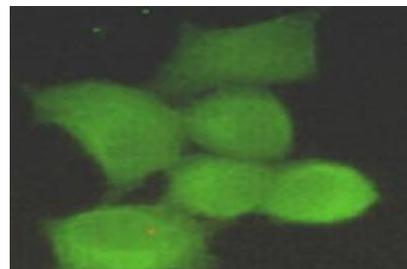
### DATA:



Western blot analysis of PP1 alpha expression in A431 (A), Jurkat (B), HeLa (C) whole cell lysates.



Immunohistochemical analysis of PP1 alpha staining in human breast carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.30). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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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