

# **Human PP1α Catalytic Subunit Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 490314 Catalog Number: MAB6105

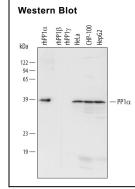
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human PP1α Catalytic Subunit in Western blots. In Western blots, no cross-reactivity with recombinant human (rh) PP1β or rhf observed.		
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 490314		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	synthetic peptide corresponding to Gly304-Arg317 of human PP1α catalytic subunit		
	Gly304-Arg317 Accession # P62136		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

## **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

#### Data



Detection of Human PP1 $\alpha$  by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, CHP-100 human neuroblastoma cell line, and HepG2 human hepatocellular carcinoma cell line. PVDF Membrane was probed with 1  $\mu$ g/mL of Human PP1 $\alpha$  Catalytic Subunit Monoclonal Antibody (Catalog # MAB6105) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, recombinant human PP1 $\alpha$ , recombinant human PP1 $\beta$ , and recombinant human PP1 $\gamma$  (5  $\alpha$ )(Alane) were included. A specific band was detected for PP1 $\alpha$  at approximately 39 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

# PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

Protein Phosphatase 1, also known as PP1 and PPP1, is an enzyme that removes phosphate groups attached to serine or threonine residues in proteins. The holoenzyme is composed of two subunits, a catalytic subunit that is highly conserved throughout evolution, and a wide variety of regulatory subunits that target the enzyme to specific subcellular compartments and proteins. Three isoforms of the catalytic subunit are ubiquitously expressed in tissues and cell lines: PP1α, PP1β and PP1γ.

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