

## **Human PP4 Catalytic Subunit Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 501517 Catalog Number: MAB5074

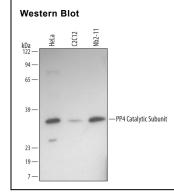
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human, mouse, and rat PP4 Catalytic Subunit in Western blots.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 501517		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human PP4 Catalytic Subunit Met1-Leu307 Accession # P60510		
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 PP4 Catalytic Subunit by Western Blot.

Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, C2C12 mouse myoblast cell line, and Nb2-11 rat lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human PP4 Catalytic Subunit Monoclonal Antibody (Catalog # MAB5074) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PP4 Catalytic Subunit at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

## 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

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- 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**

The catalytic subunit of Protein Phosphatase 4 (PP4), also called PPX, is a serine/threonine protein phosphatase with about 65% homology to PP2A. Although PP4 has the same heterotrimeric subunit structure as PP2A and can use many of the PP2A regulatory subunits, PP4 also has its own unique scaffolding and regulatory subunits. PP4 is largely found in the centrosome of the nucleus where it may play a role in modulating transcription factor phosphorylation by JNK. In Drosophila, cmm mutants have low levels of PP4 and are unable to complete mitosis due to a deficit in microtubule assembly.

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