

DESCRIPTION

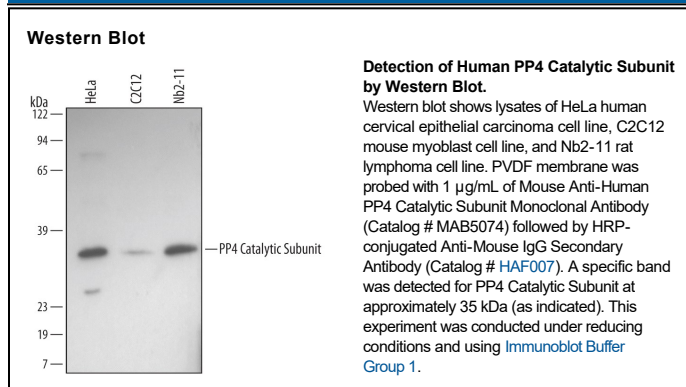
Species Reactivity	Human
Specificity	Detects human, mouse, and rat PP4 Catalytic Subunit in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 501517
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PP4 Catalytic Subunit 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



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. <ul style="list-style-type: none"> ● 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.