

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
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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