

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat PP1α. Based on the amino acid homologies, the antibody is expected to cross-react with PP1β and PP1γ.
Source	Monoclonal Mouse IgG _{2A} Clone # 319319
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PP1α catalytic subunit Lys41-Pro298 Accession # P62136
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

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 (PP1ca) that is highly conserved throughout evolution, and a wide variety of regulatory subunits that target the enzyme to specific subcellular compartments and proteins. The catalytic subunit is ubiquitously expressed in tissues and cell lines.

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