Human PP1α Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 490314

Catalog Number: FAB6105V

100 µg

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 rhPP1γ is observed.
Source	Monoclonal Mouse IgG_{2A} 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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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 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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