

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat PP2A in Western blots. Because PP2A-α and PP2A-β catalytic subunits are identical in the region used for the immunogen, it is expected that both isoforms will be detected by the antibody.
Source	Monoclonal Rat IgG _{2B} Clone # 234529
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PP2A-α catalytic subunit Trp209-Leu309 Accession # P67775
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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 2A (PP2A) dephosphorylates serine and threonine residues in proteins. This ubiquitously expressed enzyme plays a critical role in modulating cell survival, growth factor responses, and neurotransmission. Phosphorylation near the C-terminus at Y307 of the catalytic subunit decreases the phosphatase activity of PP2A and reduces its ability to bind to proteins such as CD28 and the glutamate receptor GluR5. Phosphorylation of PP2A at Y307 is highest during M-phase and lowest during S-phase of the cell cycle. Transient PP2A phosphorylation at this site is also observed in growth factor-stimulated cells.

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