

Human/Mouse/Rat Phospho-PP2A (Y307), Catalytic Subunit Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF3989

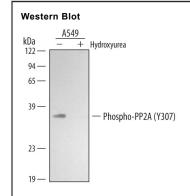
DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human, mouse, and rat PP2A when phosphorylated at Y307. The antigen is identical to the PP4 Y305 phosphorylation site.	
Source	Polyclonal Rabbit IgG	
Purification	Antigen Affinity-purified	
Immunogen	Phosphopeptide containing human PP2A Y307 site	
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



Detection of Human Phospho-PP2A (Y307), Catalytic Subunit by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line untreated (-) or treated (+) with hydroxyurea. PVDF membrane was probed with 1 μ g/mL of Rabbit Anti-Human/Mouse/Rat Phospho-PP2A (Y307), Catalytic Subunit Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3989), followed by HRPconjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-PP2A (Y307), Catalytic Subunit at approximately 36 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 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

- 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

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.

Rev. 2/6/2018 Page 1 of 1

