

DESCRIPTION

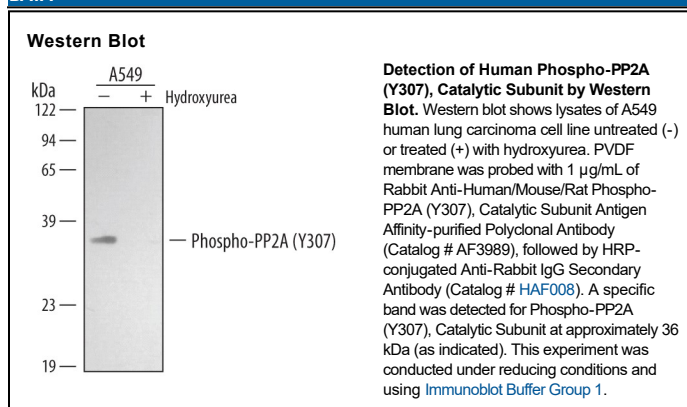
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat PP2A when phosphorylated at Y307. The antigen is identical to the PP4 Y305 phosphorylation site.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human PP2A Y307 site
Formulation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



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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 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.