

PP2A (Phospho-Y307) polyclonal antibody

Catalog: BS94065

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Protein phosphatase type 2A (PP2A) is an essential protein serine/threonine phosphatase that is conserved in all eukaryotes. PP2A is a key enzyme within various signal transduction pathways as it regulates fundamental cellular activities such as DNA replication, transcription, translation, metabolism, cell cycle progression, cell division, apoptosis and development. The core enzyme consists of catalytic C and regulatory A (or PR65) subunits, with each subunit represented by α and β isoforms. Additional regulatory subunits belong to four different families of unrelated proteins. Both the B (or PR55) and B' regulatory protein families contain α , β , γ and δ isoforms, with the B' family also including an ϵ protein. B'' family proteins include PR72, PR130, PR59 and PR48 isoforms, while striatin (PR110) and SG2NA (PR93) are both members of the B''' regulatory protein family. These B subunits competitively bind to a shared binding site on the core A subunit. This variable array of holoenzyme components, particularly regulatory B subunits, allows PP2A to act in a diverse set of functions. PP2A function is regulated by expression, localization, holoenzyme composition and post-translational modification. Phosphorylation of PP2A at Tyr307 by Src occurs in response to EGF or insulin and results in a substantial reduction of PP2A activity. Reversible methylation on the carboxyl group of Leu309 of PP2A has been observed. Methylation alters the conformation of PP2A, as well as its localization and association with B regulatory subunits.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

35 kDa

Swiss-Prot:

P62714(Human) P67775(Human) P62715(Mouse)

P63330(Mouse) P62716(Rat) P63331(Rat)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000-1:5,000

ICC:1:50-1:200

IHC:1:50-1:200

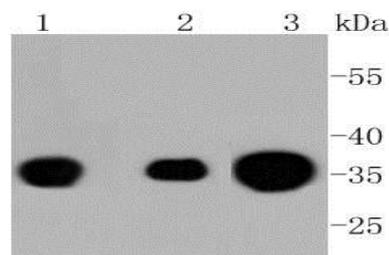
Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

Specificity:

PP2A (Phospho-Y307) polyclonal antibody detects endogenous levels of PP2A protein only when phosphorylated at Y307.

DATA:

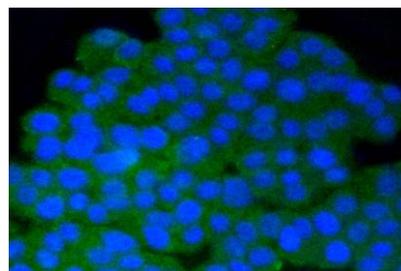


Western blot analysis of Phospho-PP2A(pY307) on different lysates using anti-Phospho-PP2A(pY307) antibody at 1/1,000 dilution. Positive control:

Lane 1: A431

Lane 2: F9

Lane 3: PC12



ICC staining Phospho-PP2A(pY307) in PC12 cells (green). The nuclear

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PRODUCT DATA SHEET

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counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note:

For research use only, not for use in diagnostic procedure.

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