

PP2B-A (H-209): sc-9070

BACKGROUND

In eukaryotes, the phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions including division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the protein phosphatases. In general, the protein phosphatase (PP) holoenzyme is a trimeric complex composed of a regulatory subunit, a variable subunit and a catalytic subunit. Four major families of protein phosphatase catalytic subunit have been identified, designated PP1, PP2A, PP2B and PP2C. An additional protein phosphatase catalytic subunit, PPX (also known as PP4), is a putative member of a novel PP family. The PP2B family comprises subfamily members PP2B- α , PP2B- β and PP2B- γ . Two additional regulatory subunits been identified, designated PP2B-B1 and PP2B-B2.

CHROMOSOMAL LOCATION

Genetic locus: PPP3CA (human) mapping to 4q24; Ppp3ca (mouse) mapping to 3 G3.

SOURCE

PP2B-A (H-209) is a rabbit polyclonal antibody raised against amino acids 312-521 mapping at the C-terminus of PP2B- α (protein phosphatase 2B catalytic α subunit) of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

PP2B-A (H-209) is recommended for detection of all PP2B-A isoforms of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PP2B-A (H-209) is also recommended for detection of all PP2B-A isoforms in additional species, including equine, canine, bovine, porcine and avian.

Molecular Weight of PP2B-A: 62 kDa.

Positive Controls: PP2B- α (h): 293T Lysate: sc-114233 or mouse brain extract: sc-2253.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

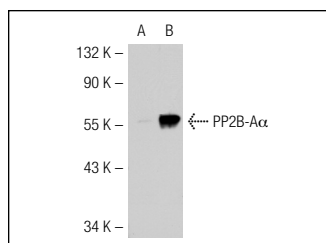
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

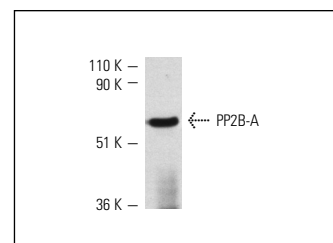
RESEARCH USE

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

DATA



PP2B-A (H-209): sc-9070. Western blot analysis of PP2B- α expression in non-transfected: sc-117752 (A) and human PP2B- α transfected: sc-114233 (B) 293T whole cell lysates.



PP2B-A (H-209): sc-9070. Western blot analysis of PP2B-A expression in mouse brain extract.

SELECT PRODUCT CITATIONS

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