SANTA CRUZ BIOTECHNOLOGY, INC.

PP2B-A (312-521): sc-4459 WB

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), a putative member of a novel PP family. PP2B or (calcineurin) is a major calmodulin-binding protein of the brain. It is composed of two subunits: PP2A-A, the 60 kDa catalytic component, and PP2A-B, the 19 kDa regulatory component which confers the $Ca2^{+}$-binding requirement of PP2B. Two additional regulatory subunits been identified, designated PP2B-B1 and PP2B-B2.

REFERENCES

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SOURCE

PP2B-A (312-521) is expressed in *E. coli* as a 50 kDa tagged fusion protein corresponding to amino acids 312-521 of PP2B-A of human origin.

PRODUCT

PP2B-A (312-521) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

PP2B-A (312-521) is suitable Western blotting control for sc-6121, sc-6122, sc-6123, sc-6124, sc-9070 and sc-17808.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

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