PP2A-Cβ (h): 293T Lysate: sc-113470



The Power to Question

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 subunits have been identified, designated PP1, PP2A, PP2B (calcineurin) and PP2C. The PP2A family comprises subfamily members PP2A α and PP2A β . An additional protein phosphatase catalytic subunit, PPX (also known as PP4), is a putative member of a novel PP family. The PP2A catalytic subunit associates with a variety of regulatory subunits. Regulatory subunits include PP2A-A α and -A β , PP2A-B α and -B β , PP2A-C α and -C β , and PP2A-B56- α and -B56- β .

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPP2CB (human) mapping to 8p12.

PRODUCT

PP2A-Cβ (h): 293T Lysate represents a lysate of human PP2A-Cβ transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

PP2A-C β (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PP2A-C β antibodies. Recommended use: 10-20 μ l per lane

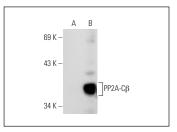
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-tranfected 293T cells.

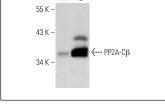
PP2A- $C\alpha/\beta$ (G-4): sc-166034 is recommended as a positive control antibody for Western Blot analysis of enhanced human PP2A- $C\beta$ expression in PP2A- $C\beta$ transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA





PP2A-C α/β (G-4): sc-166034. Western blot analysis of PP2A-C β expression in non-transfected: sc-117752 (**A**) and human PP2A-C β transfected: sc-113470 (**B**) 293T whole cell lysates.

PP2A-C α/β (0.T.118): sc-56950. Western blot analysis of PP2A-C β expression in non-transfected: sc-117752 (**A**) and human PP2A-C β transfected: sc-113470 (**B**) 293T whole cell lysates.

RESEARCH USE

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

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