

## PP2B-A $\alpha$ (h): 293T Lysate: sc-114233

### 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-A $\alpha$ , PP2B-A $\beta$  and PP2B-A $\gamma$ . Two additional regulatory subunits have been identified, designated PP2B-B1 and PP2B-B2.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: PPP3CA (human) mapping to 4q24.

### PRODUCT

PP2B-A $\alpha$  (h): 293T Lysate represents a lysate of human PP2B-A $\alpha$  transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l 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.

### APPLICATIONS

PP2B-A $\alpha$  (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PP2B-A $\alpha$  antibodies. Recommended use: 10-20  $\mu$ l per lane.

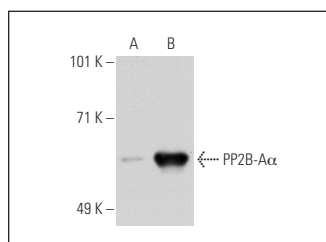
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PP2B-A $\alpha$  (D-9): sc-17808 is recommended as a positive control antibody for Western Blot analysis of enhanced human PP2B-A $\alpha$  expression in PP2B-A $\alpha$  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-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

### DATA



PP2B-A $\alpha$  (D-9): sc-17808. Western blot analysis of PP2B-A $\alpha$  expression in non-transfected: sc-117752 (A) and human PP2B-A $\alpha$  transfected: sc-114233 (B) 293T whole cell lysates.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.