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# PP2C $\gamma$ (h2): 293T Lysate: sc-172856

## BACKGROUND

Eukaryotic protein phosphorylation and dephosphorylation on serine and threonine residues regulates numerous cell functions, including division, homeostasis and apoptosis. A group of proteins that play a major role in this process are the serine/threonine protein phosphatases. Protein phosphatase (PP) holoenzyme is a trimeric complex that contains a regulatory subunit, a variable subunit and a catalytic subunit. PP2C family members are negative regulators of cell stress response pathways. The PP2C $\gamma$  enzyme localizes to the cytoplasm and is widely expressed, with most abundant expression detected in the testis, skeletal muscle, and heart. It is necessary for the dephosphorylation of Pre-mRNA splicing factors, which is an important process for the formation of the functional spliceosome.

## REFERENCES

1. Travis, S.M. and Welsh, M.J. 1997. PP2C $\gamma$ : a human protein phosphatase with a unique acidic domain. *FEBS Lett.* 412: 415-419.
2. Murray, M.V., et al. 1999. The type 2C Ser/Thr phosphatase PP2C $\gamma$  is a pre-mRNA splicing factor. *Genes Dev.* 13: 87-97.
3. Online Mendelian Inheritance in Man, OMIM<sup>TM</sup>. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 605119. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Gerhard, D.S., et al. 2004. The status, quality, and expansion of the NIH full-length cDNA project: the mammalian gene collection (MGC). *Genome Res.* 14: 2121-2127.
5. Brautigan, D.L., et al. 2005. Allosteric activation of protein phosphatase 2C by D-chiro-inositol-galactosamine, a putative mediator mimetic of Insulin action. *Biochemistry* 44: 11067-11073.

## CHROMOSOMAL LOCATION

Genetic locus: PPM1G (human) mapping to 2p23.3.

## PRODUCT

PP2C $\gamma$  (h2): 293T Lysate represents a lysate of human PP2C $\gamma$  transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

PP2C $\gamma$  (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive PP2C $\gamma$  antibodies. Recommended use: 10-20  $\mu$ l per lane.

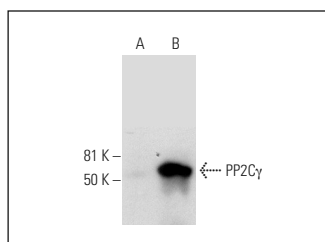
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PP2C $\gamma$  (G-11): sc-390983 is recommended as a positive control antibody for Western Blot analysis of enhanced human PP2C $\gamma$  expression in PP2C $\gamma$  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<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



PP2C $\gamma$  (G-11): sc-390983. Western blot analysis of PP2C $\gamma$  expression in non-transfected: sc-117752 (A) and human PP2C $\gamma$  transfected: sc-172856 (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.