

PP2C γ (k1G6): sc-135627

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 γ 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

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CHROMOSOMAL LOCATION

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

SOURCE

PP2C γ (k1G6) is a mouse monoclonal antibody raised against amino acids 317-546 corresponding to recombinant PP2C γ of human origin.

PRODUCT

Each vial contains 50 μ g IgG₁ in 500 μ l of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

RESEARCH USE

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

APPLICATIONS

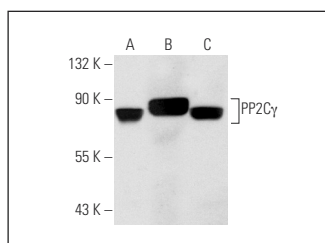
PP2C γ (k1G6) is recommended for detection of PP2C γ of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PP2C γ siRNA (h): sc-61388, PP2C γ shRNA Plasmid (h): sc-61388-SH and PP2C γ shRNA (h) Lentiviral Particles: sc-61388-V.

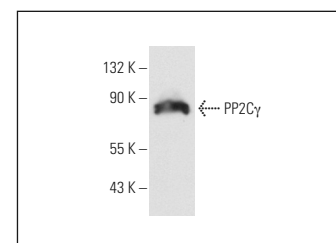
Molecular Weight of PP2C γ : 68 kDa.

Positive Controls: PP2C γ (h2): 293T Lysate: sc-172856 or Jurkat whole cell lysate: sc-2204.

DATA



PP2C γ (k1G6): sc-135627. Western blot analysis of PP2C γ expression in non-transfected 293T: sc-117752 (A), human PP2C γ transfected 293T: sc-172856 (B) and Jurkat (C) whole cell lysates.



PP2C γ (k1G6): sc-135627. Western blot analysis of PP2C γ expression in Jurkat whole cell lysate.

PROTOCOLS

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