

PP2A-B56- γ (H-40): sc-67038

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 , PP2A-B56- α , -B56- β , -B56- γ and -B56 δ .

CHROMOSOMAL LOCATION

Genetic locus: PPP2R5C (human) mapping to 14q32.31; Ppp2r5c (mouse) mapping to 12 F1.

SOURCE

PP2A-B56- γ (H-40) is a rabbit polyclonal antibody raised against amino acids 431-470 mapping near the C-terminus of PP2A-B56- γ of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml 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.

APPLICATIONS

PP2A-B56- γ (H-40) is recommended for detection of PP2A-B56- γ of mouse, rat and 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PP2A-B56- γ (H-40) is also recommended for detection of PP2A-B56- γ in additional species, including equine, canine and bovine.

Suitable for use as control antibody for PP2A-B56- γ siRNA (h): sc-45847, PP2A-B56- γ siRNA (m): sc-45848, PP2A-B56- γ shRNA Plasmid (h): sc-45847-SH, PP2A-B56- γ shRNA Plasmid (m): sc-45848-SH, PP2A-B56- γ shRNA (h) Lentiviral Particles: sc-45847-V and PP2A-B56- γ shRNA (m) Lentiviral Particles: sc-45848-V.

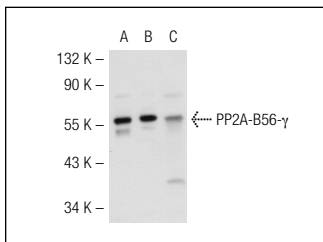
Molecular Weight of PP2A-B56- γ : 61 kDa.

Positive Controls: PP2A-B56- γ (m): 293T Lysate: sc-122716 or HeLa whole cell lysate: sc-2200.

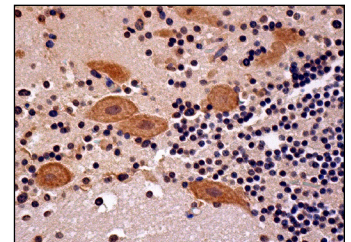
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



PP2A-B56- γ (H-40): sc-67038. Western blot analysis of PP2A-B56- γ expression in non-transfected 293T: sc-117752 (A), mouse PP2A-B56- γ transfected 293T: sc-122716 (B) and HeLa (C) whole cell lysates.



PP2A-B56- γ (H-40): sc-67038. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cerebellum tissue showing cytoplasmic staining of Purkinje cells.

SELECT PRODUCT CITATIONS

- Maghdessian, R., et al. 2010. Ascorbylperoxide contaminating parenteral nutrition perturbs the lipid metabolism in newborn guinea pig. *J. Pharmacol. Exp. Ther.* 334: 278-284.
- Kamolrat, T., et al. 2013. Fish oil positively regulates anabolic signalling alongside an increase in whole-body gluconeogenesis in ageing skeletal muscle. *Eur. J. Nutr.* 52: 647-657.

RESEARCH USE

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

PROTOCOLS

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


 MONOS
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Try **PP2A-B56- γ (E-6): sc-374380** or **PP2A-B56- γ (A-11): sc-374379**, our highly recommended monoclonal alternatives to PP2A-B56- γ (H-40).