

GPS2 (H-225): sc-134703

BACKGROUND

The N-CoR-HDAC3 repressor complex inhibits the JNK pathway, which responds to stress stimuli and is involved in cell differentiation and apoptosis. G protein pathway suppressor 2 (GPS2), also referred to as AMF1, is an integral component of the N-CoR-HDAC3 complex and functions to suppress G protein and MAP kinase-mediated signal transduction. TBL1, another component of the complex, interacts with GPS2 to form a heterotrimeric structure. GPS2 can also stimulate the activity of cellular transcription factors including the human papilloma virus E2 and E6 proteins, as well as p53. Amplified expression of GPS2 may augment p53-dependent transcription, causing a G₁ arrest in cells.

REFERENCES

1. Jin, D.Y., Teramoto, H., Giam, C.Z., Chun, R.F., Gutkind, J.S. and Jeang, K.T. 1997. A human suppressor of c-Jun N-terminal kinase 1 activation by tumor necrosis factor α . *J. Biol. Chem.* 272: 25816-25823.
2. Peng, Y.C., Breiding, D.E., Sverdrup, F., Richard, J. and Androphy, E.J. 2000. AMF-1/GPS2 binds p300 and enhances its interaction with papillomavirus E2 proteins. *J. Virol.* 74: 5872-5879.

CHROMOSOMAL LOCATION

Genetic locus: GPS2 (human) mapping to 17p13.1; Gps2 (mouse) mapping to 11 B3.

SOURCE

GPS2 (H-225) is a rabbit polyclonal antibody raised against amino acids 103-327 mapping at the C-terminus of GPS2 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.

APPLICATIONS

GPS2 (H-225) is recommended for detection of GPS2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

GPS2 (H-225) is also recommended for detection of GPS2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for GPS2 siRNA (h): sc-93692, GPS2 siRNA (m): sc-145743, GPS2 shRNA Plasmid (h): sc-93692-SH, GPS2 shRNA Plasmid (m): sc-145743-SH, GPS2 shRNA (h) Lentiviral Particles: sc-93692-V and GPS2 shRNA (m) Lentiviral Particles: sc-145743-V.

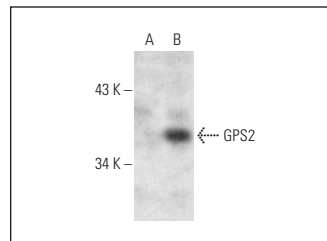
Molecular Weight of GPS2: 40 kDa.

Positive Controls: GPS2 (h): 293 Lysate: sc-112329 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.

DATA



GPS2 (H-225): sc-134703. Western blot analysis of GPS2 expression in non-transfected: sc-110760 (A) and human GPS2 transfected: sc-112329 (B) 293 whole cell lysates.

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.

PROTOCOLS

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


 MONOS
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Try **GPS2 (1E2): sc-69707**, our highly recommended monoclonal alternative to GPS2 (H-225).