

GPS2 (1E2): sc-69707

BACKGROUND

The N-CoR-HDAC3 repressor complex inhibits the JNK pathway, which is involved in cell differentiation and apoptosis and responds to stress stimuli. 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. The N-CoR complex inhibits the JNK pathway, a pathway that is involved in cell differentiation and apoptosis and responds to stress stimuli. 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

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CHROMOSOMAL LOCATION

Genetic locus: GPS2 (human) mapping to 17p13.1.

SOURCE

GPS2 (1E2) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 161-311 of GPS2 of human origin.

PRODUCT

Each vial contains 50 μ g IgG₃ in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

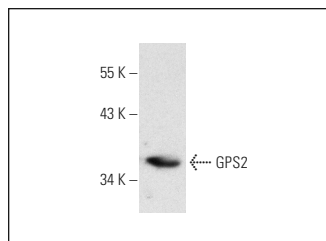
GPS2 (1E2) is recommended for detection of GPS2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

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

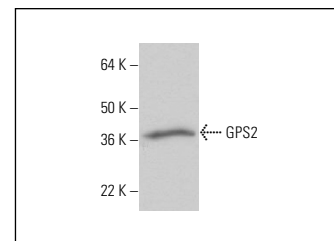
Molecular Weight of GPS2: 40 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or A-673 nuclear extract: sc-2128.

DATA



GPS2 (1E2): sc-69707. Western blot analysis of GPS2 expression in A-673 nuclear extract.



GPS2 (1E2): sc-69707. Western blot analysis of GPS2 expression in HeLa whole cell lysate.

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 for detailed protocols and support products.