



G1P3 (S-12): sc-82176

BACKGROUND

G1P3, also known as interferon α -inducible protein 6 (IFI6) or interferon-induced protein 6-16, is a 130 amino acid member of the IFI6 family of proteins. Localized to the mitochondria, G1P3 is a multi-pass membrane protein that is induced by IFN- 2β . G1P3 has been shown to play a major role in the apoptosis pathway. Specifically, G1P3 acts as a cell survival protein by inhibiting caspase-3 activity, which antagonizes apoptosis. G1P3 has been implicated in tumorigenesis and is the subject of therapeutic studies, as reducing G1P3-mediated antiapoptotic signals could suggest improved therapies for myeloma or other malignancies.

REFERENCES

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3. Joo, S.S., et al. 2006. Interferon signal transduction of biphenyl dimethyl dicarboxylate/amantadine and anti-HBV activity in HepG2 2.2.15. *Arch. Pharm. Res.* 29: 405-411.
4. Särkijärvi, S., et al. 2006. Gene expression profiles in Finnish twins with multiple sclerosis. *BMC Med. Genet.* 7: 11.
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7. Tsai, M.H., et al. 2007. Gene expression profiling of breast, prostate, and glioma cells following single versus fractionated doses of radiation. *Cancer Res.* 67: 3845-3852.
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CHROMOSOMAL LOCATION

Genetic locus: IFI6 (human) mapping to 1p35.3.

SOURCE

G1P3 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of G1P3 of human origin.

STORAGE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82176 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

G1P3 (S-12) is recommended for detection of G1P3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for G1P3 siRNA (h): sc-75074, G1P3 shRNA Plasmid (h): sc-75074-SH and G1P3 shRNA (h) Lentiviral Particles: sc-75074-V.

Molecular Weight of G1P3: 13 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.