

GMF- γ (E-13): sc-168016

BACKGROUND

GMF- γ (glia maturation factor, γ), also known as GMFG, is a 142 amino acid protein that belongs to the GMF subfamily of the larger Actin-binding protein ADF family. GMF- γ is expressed predominantly in lung, heart and placenta. GMF- γ is considered a candidate regulatory growth factor protein, mediating both paracrine and autocrine cell-cell interactions. GMF- γ is phosphorylated at N-terminal serine, and its phosphorylation is enhanced by coexpression of dominant active Rac 1 and Cdc42. GMF- γ expression is significantly increased in a cardiac ischemia/reperfusion model where inflammation and angiogenesis take place actively. As a regulator of Actin-based cellular functions, GMF- γ may provide a novel approach to modulate the pathophysiology of cardiovascular diseases. GMF- γ is primarily found in proliferative and differentiative organs.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GMFG (human) mapping to 19q13.2.

SOURCE

GMF- γ (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GMF- 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.

Blocking peptide available for competition studies, sc-168016 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GMF- γ (E-13) is recommended for detection of GMF- γ 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); may cross-react with NupL2 of human origin.

Suitable for use as control antibody for GMF- γ siRNA (h): sc-97348, GMF- γ shRNA Plasmid (h): sc-97348-SH and GMF- γ shRNA (h) Lentiviral Particles: sc-97348-V.

Molecular Weight of GMF- γ : 17 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.

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.