

GDF-10 (E-16): sc-324871

BACKGROUND

Growth/differentiation factors (GDFs) are members of the TGF superfamily whose members are involved in embryonic development and adult tissue homeostasis. GDF-10 (growth differentiation factor 10), also known as BMP3B (bone morphogenetic protein 3B) or BIP, is a 478 amino acid secreted protein that belongs to the TGF superfamily. Expressed in lung, femur, brain, testis, pancreas and skeletal muscle, GDF-10 exists as a homodimer or a heterodimer that, characteristic of BMP proteins, contains a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. GDF-10 is thought to play a role in cell growth and differentiation and may be involved in skeletal morphogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GDF10 (human) mapping to 10q11.22; Gdf10 (mouse) mapping to 14 B.

SOURCE

GDF-10 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GDF-10 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-324871 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GDF-10 (E-16) is recommended for detection of GDF-10 of mouse, rat and 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-reactive with BMP-3.

GDF-10 (E-16) is also recommended for detection of GDF-10 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for GDF-10 siRNA (h): sc-90476, GDF-10 shRNA Plasmid (h): sc-90476-SH and GDF-10 shRNA (h) Lentiviral Particles: sc-90476-V.

Molecular Weight of GDF-10: 52 kDa.

Positive Controls: A-375 cell lysate: sc-3811.

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.