

OSTF1 (N-13): sc-163198

BACKGROUND

OSTF1 (osteoclast-stimulating factor 1) is a 214 amino acid cytoplasmic protein that contains 3 ANK repeats and one SH3 domain. The SH3 domain mediates interaction of OSTF1 with SMN. In addition to SMN, OSTF1 interacts with Src and FAS-L. In osteoclasts, OSTF1 is thought to induce bone resorption most likely through a signaling cascade that results in the secretion of factors that enhance osteoclast formation and activity. The gene that encodes OSTF1 consists of almost 59,000 bases and maps to human chromosome 9q21. Housing over 900 genes, chromosome 9 comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OSTF1 (human) mapping to 9q21.13; Ostf1 (mouse) mapping to 19 B.

SOURCE

OSTF1 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of OSTF1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-163198 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OSTF1 (N-13) is recommended for detection of OSTF1 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).

OSTF1 (N-13) is also recommended for detection of OSTF1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for OSTF1 siRNA (h): sc-92800, OSTF1 siRNA (m): sc-151336, OSTF1 shRNA Plasmid (h): sc-92800-SH, OSTF1 shRNA Plasmid (m): sc-151336-SH, OSTF1 shRNA (h) Lentiviral Particles: sc-92800-V and OSTF1 shRNA (m) Lentiviral Particles: sc-151336-V.

Molecular Weight of OSTF1: 28 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.