

TBZF (S-13): sc-248788

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. TBZF (TRAF6-inhibitory zinc finger protein), also known as zinc finger protein 675, is a 568 amino acid nuclear protein that contains one KRAB domain and 15 C₂H₂-type zinc fingers. Through modulation of TRAF6 signaling activity and inhibition of RANK signaling, TBZF may play a role in osteoclast differentiation. TBZF is regulated during differentiation of human peripheral blood monocytes into osteoclasts and transfection of TBZF into Raw 264.7 cells reduces RANK ligand-induced osteoclastogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF675 (human) mapping to 19p12.

SOURCE

TBZF (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TBZF of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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-248788 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TBZF (S-13) is recommended for detection of TBZF 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 TBZF siRNA (h): sc-97513, TBZF shRNA Plasmid (h): sc-97513-SH and TBZF shRNA (h) Lentiviral Particles: sc-97513-V.

Molecular Weight of TBZF: 66 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.