

TBZF (T-13): sc-248789

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 RAW264.7 cells reduces RANK ligand-induced osteoclastogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

TBZF (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TBZF 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-248789 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TBZF (T-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.

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.