



TIEG2 (N-18): sc-23160

BACKGROUND

Originally isolated from osteoblastic cells, the TGF β -inducible early gene 1 (TIEG1) is a Krupel-like zinc finger transcription factor that regulates cellular growth and differentiation. TIEG1 is regulated as an early response gene by TGF β 1. It is expressed in both acinar and ductular epithelial cells from exocrine pancreas and may serve as an early response gene in pancreatic cells, and overexpression of TIEG1 in TGF β -sensitive epithelial cells induces apoptosis. TIEG1 is expressed at high levels in PBLs, spleen and colon, and at lower levels in thymus, small intestine, ovary, prostate and skeletal muscle. The nuclear TIEG2 protein, which shares significant homology with TIEG1, was originally isolated from globin-expressing human fetal erythroid cells. TIEG2 is expressed in fetal liver, and overexpression of TIEG2 in cultured epithelial cells inhibits cellular proliferation. TIEG2 expression is upregulated by TGF β 1 and serum deprivation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: KLF11 (human) mapping to 2p25.1; Klf11 (mouse) mapping to 12 A1.3.

SOURCE

TIEG2 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of TIEG2 of human origin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-23160 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-23160 X, 200 μ g/0.1 ml.

APPLICATIONS

TIEG2 (N-18) is recommended for detection of TIEG2 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).

Suitable for use as control antibody for TIEG2 siRNA (h): sc-38546, TIEG2 siRNA (m): sc-38547, TIEG2 shRNA Plasmid (h): sc-38546-SH, TIEG2 shRNA Plasmid (m): sc-38547-SH, TIEG2 shRNA (h) Lentiviral Particles: sc-38546-V and TIEG2 shRNA (m) Lentiviral Particles: sc-38547-V.

TIEG2 (N-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TIEG2: 72 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, HL-60 nuclear extract: sc-2147 or EB1 cell lysate: sc-24668.

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.

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.