BACKGROUND

TNFα-IP1 (tumor necrosis factor, α-induced protein 1, endothelial), also known as B12, B61, EDPI or TNFAIP1, is a BTB/POZ domain-containing protein that belongs to the KCTD10/KCTD13/TNFAIP1 family. TNFα-IP1 contains one BTB/POZ motif, which is known to mediate homomeric and heteromeric POZ-POZ interactions and is common to transcriptional regulators involved in chromatin modeling. The expression of TNFα-IP1 can be induced by IL-6 (interleukin-6) and by TNFα in the umbilical vein of endothelial cells. TNFα-IP1 may be involved in DNA repair, DNA synthesis, cell apoptosis and human diseases. TNFα-IP1 is suggested to play a role in the process of cancer and in the innate immunity against the Hepatitis B virus.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: TNFAIP1 (human) mapping to 17q11.2; Tnfaip1 (mouse) mapping to 11 B5.

SOURCE

TNFα-IP1 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of TNFα-IP1 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-82053 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TNFα-IP1 (N-16) is recommended for detection of TNFα-IP1 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 TNFα-IP1 siRNA (h): sc-76696, TNFα-IP1 siRNA (m): sc-76697, TNFα-IP1 shRNA Plasmid (h): sc-76696-SH, TNFα-IP1 shRNA Plasmid (m): sc-76697-SH, TNFα-IP1 shRNA (h) Lentiviral Particles: sc-76696-V and TNFα-IP1 shRNA (m) Lentiviral Particles: sc-76697-V.

Molecular Weight of TNFα-IP1: 36 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.

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.