

TOE1 (P-13): sc-103906

BACKGROUND

TOE1 (target of Egr-1 protein 1) is a 510 amino acid long protein that belongs to the CAF1 family. It is a downstream target of Egr-1 and plays an important role mediating the inhibitory growth effect of Egr-1. Egr-1 directly binds the TOE1 promoter region and activates its expression. TOE1 induces the expression of TGF β and p21 and plays a role in cell cycle regulation and the inhibition of cell growth. The activity and nucleolar localization of TOE1 correlates with a G₂ cell cycle phase delay which is likely due to an increased expression of p21. In addition, TOE1 may function via an interaction with p53 and possible modification to its activity. TOE1 is expressed at various levels in all adult tissues and specifically localizes to the nuclear speckles.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TOE1 (human) mapping to 1p34.1; Toe1 (mouse) mapping to 4 C7.

SOURCE

TOE1 (P-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TOE1 of human origin.

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-103906 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

TOE1 (P-13) is recommended for detection of TOE1 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 TOE1 siRNA (h): sc-88412, TOE1 siRNA (m): sc-106625, TOE1 shRNA Plasmid (h): sc-88412-SH, TOE1 shRNA Plasmid (m): sc-106625-SH, TOE1 shRNA (h) Lentiviral Particles: sc-88412-V and TOE1 shRNA (m) Lentiviral Particles: sc-106625-V.

Molecular Weight of TOE1: 60 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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.