TOE1 (H-300): sc-98564



The Power to Question

BACKGROUND

T0E1 (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 T0E1 promoter region and activates its expression. T0E1 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 T0E1 correlates with a G_2 cell cycle phase delay which is likely due to an increased expression of p21. In addition, T0E1 may function via an interaction with p53 and possible modification to its activity. T0E1 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 D1.

SOURCE

TOE1 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of TOE1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

T0E1 (H-300) is recommended for detection of T0E1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

TOE1 (H-300) is also recommended for detection of TOE1 in additional species, including equine, bovine and porcine.

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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

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