

# THAP1 (D-13): sc-98175



The Power to Question

## BACKGROUND

THAP1 (THAP domain containing, apoptosis associated protein 1) is a 213 amino acid protein that localizes to the nucleoplasm and contains one THAP-type zinc finger, a conserved DNA-binding domain. Interacting with PAR4, THAP1 functions as a pro-apoptotic protein that acts in a zinc-dependent manner and enhances the likelihood of both TNF and serum withdrawal-induced apoptosis, possibly playing a role in promyelocytic leukemia. The gene encoding THAP1 maps to human chromosome 8, which consists of nearly 146 million base pairs, houses more than 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that map to chromosome 8.

## REFERENCES

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5. Cayrol, C., Lacroix, C., Mathe, C., Ecochard, V., Ceribelli, M., Loreau, E., Lazar, V., Dessen, P., Mantovani, R., Aguilar, L. and Girard, J.P. 2007. The THAP-zinc finger protein THAP1 regulates endothelial cell proliferation through modulation of pRB/E2F cell-cycle target genes. *Blood* 109: 584-594.
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## CHROMOSOMAL LOCATION

Genetic locus: THAP1 (human) mapping to 8p11.21; Thap1 (mouse) mapping to 8 A2.

## SOURCE

THAP1 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of THAP1 of human origin.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## 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-98175 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

THAP1 (D-13) is recommended for detection of THAP1 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); non cross-reactive with THAP7.

THAP1 (D-13) is also recommended for detection of THAP1 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for THAP1 siRNA (h): sc-77834, THAP1 siRNA (m): sc-154244, THAP1 shRNA Plasmid (h): sc-77834-SH, THAP1 shRNA Plasmid (m): sc-154244-SH, THAP1 shRNA (h) Lentiviral Particles: sc-77834-V and THAP1 shRNA (m) Lentiviral Particles: sc-154244-V.

Molecular Weight of THAP1: 25 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.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.