

THAP1 (C-18): sc-98174



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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3. Clouaire, T., Roussigne, M., Ecochard, V., Mathe, C., Amalric, F. and Girard, J.P. 2005. The THAP domain of THAP1 is a large C₂CH module with zinc-dependent sequence-specific DNA-binding activity. *Proc. Natl. Acad. Sci. USA* 102: 6907-6912.
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CHROMOSOMAL LOCATION

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

SOURCE

THAP1 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus 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-98174 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

THAP1 (C-18) 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 (C-18) is also recommended for detection of THAP1 in additional species, including equine, canine, bovine and porcine.

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 or our catalog for detailed protocols and support products.



Try **THAP1 (3H3): sc-135578**, our highly recommended monoclonal alternative to THAP1 (C-18).