

# THAP11 (364CT25.4.2): sc-517366

## BACKGROUND

Members of the THAP (thanatos-associated protein) family of proteins contain a well conserved DNA-binding domain known as the THAP-type zinc finger motif. Proteins containing the THAP-type zinc finger motif are commonly involved in transcriptional regulation, cell-cycle control, apoptosis and chromatin modification. The THAP-type zinc finger domain is suggested to have similarities with the site-specific DNA-binding domain (DBD) of *Drosophila* P element transposase. THAP11 (THAP domain containing 11), also known as HRIHFB2206, is a 314 amino acid protein that belongs to the THAP11 family and contains one THAP-type zinc finger. Localizing to the nucleus and cytoplasm, THAP11 may act as a transcriptional repressor, playing a role in embryogenesis and pluripotency of embryonic stem cells by recruiting epigenetic modifiers. THAP11 interacts with HCF1 via a coiled coil domain.

## REFERENCES

1. Roussigne, M., Cayrol, C., Clouaire, T., Amalric, F. and Girard, J.P. 2003. THAP1 is a nuclear proapoptotic factor that links prostate-apoptosis-response-4 (Par-4) to PML nuclear bodies. *Oncogene* 22: 2432-2442.
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5. Liew, C.K., Crossley, M., Mackay, J.P. and Nicholas, H.R. 2007. Solution structure of the THAP domain from *Caenorhabditis elegans* C-terminal binding protein (CtBP). *J. Mol. Biol.* 366: 382-390.
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7. Zhu, C.Y., Li, C.Y., Li, Y., Zhan, Y.Q., Li, Y.H., Xu, C.W., Xu, W.X., Sun, H.B. and Yang, X.M. 2009. Cell growth suppression by thanatos-associated protein 11 (THAP11) is mediated by transcriptional downregulation of c-Myc. *Cell Death Differ.* 16: 395-405.

## CHROMOSOMAL LOCATION

Genetic locus: THAP11 (human) mapping to 16q22.1; Thap11 (mouse) mapping to 8 D3.

## SOURCE

THAP11 (364CT25.4.2) is a mouse monoclonal antibody raised against a synthetic peptide corresponding to amino acids 165-193 in a central region of THAP11 of human origin.

## PRODUCT

Each vial contains 100 µg IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

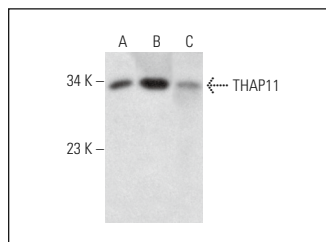
THAP11 (364CT25.4.2) is recommended for detection of THAP11 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for THAP11 siRNA (h): sc-93328, THAP11 siRNA (m): sc-154245, THAP11 shRNA Plasmid (h): sc-93328-SH, THAP11 shRNA Plasmid (m): sc-154245-SH, THAP11 shRNA (h) Lentiviral Particles: sc-93328-V and THAP11 shRNA (m) Lentiviral Particles: sc-154245-V.

Molecular Weight of THAP11: 34 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, NIH/3T3 whole cell lysate: sc-2210 or rat hippocampus tissue extract.

## DATA



THAP11 (364CT25.4.2): sc-517366. Western blot analysis of THAP11 expression in Hep G2 (A) and NIH/3T3 (B) whole cell lysates and rat hippocampus tissue extract (C).

## SELECT PRODUCT CITATIONS

1. Ye, B. and Lu, Z. 2022. Role of TRIM22 in ulcerative colitis and its underlying mechanisms. *Mol. Med. Rep.* 26: 249.

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

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