

# THAP11 (F-14): sc-165683

## 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., et al. 2003. THAP1 is a nuclear proapoptotic factor that links prostate-apoptosis-response-4 (Par-4) to PML nuclear bodies. *Oncogene* 22: 2432-2442.
2. Roussigne, M., et al. 2003. The THAP domain: a novel protein motif with similarity to the DNA-binding domain of P element transposase. *Trends Biochem. Sci.* 28: 66-69.
3. Pandey, N., et al. 2004. SMARCA2 and THAP11: potential candidates for polyglutamine disorders as evidenced from polymorphism and protein-folding simulation studies. *J. Hum. Genet.* 49: 596-602.
4. Macfarlan, T., et al. 2005. Human THAP7 is a chromatin-associated, histone tail-binding protein that represses transcription via recruitment of HDAC3 and nuclear hormone receptor corepressor. *J. Biol. Chem.* 280: 7346-7358.
5. Liew, C.K., et al. 2007. Solution structure of the THAP domain from *Caenorhabditis elegans* C-terminal binding protein (CtBP). *J. Mol. Biol.* 366: 382-390.
6. Dejosez, M., et al. 2008. Ronin is essential for embryogenesis and the pluripotency of mouse embryonic stem cells. *Cell* 133: 1162-1174.
7. Zhu, C.Y., et al. 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 (F-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of THAP11 of human origin.

## 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-165683 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

THAP11 (F-14) 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), 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 other THAP family members.

THAP11 (F-14) is also recommended for detection of THAP11 in additional species, including canine, bovine and porcine.

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.

## 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.

## 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) or our catalog for detailed protocols and support products.