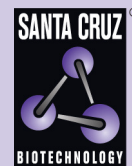


# THAP7 (N-13): sc-86908



The Power to Question

## BACKGROUND

THAP7 (THAP domain-containing protein 7) is a 309 amino acid protein belonging to the Thanatos-associated protein family. Ubiquitously expressed, with highest expression in testis, THAP7 contains one THAP domain, an approximately 90 amino acid residue domain which includes a C<sub>2</sub>H signature, an AVPTIF box and several other conserved amino acids. In the nucleus, THAP7 associates with chromatin and binds preferentially to hypoacetylated (un-, mono- and diacetylated) Histones H3 and H4 through the C-terminal tail. In addition, THAP7 represses transcription by recruiting HDAC3 and N-CoR to promoters to deacetylate Histone H3. The gene encoding human THAP7 is localized to chromosome 22q11.21.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: THAP7 (human) mapping to 22q11.21; Thap7 (mouse) mapping to 16 A3.

## SOURCE

THAP7 (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of THAP7 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86908 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-86908 X, 100  $\mu$ g/0.1 ml.

## APPLICATIONS

THAP7 (N-13) is recommended for detection of THAP7 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 THAP1.

THAP7 (N-13) is also recommended for detection of THAP7 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for THAP7 siRNA (h): sc-76651, THAP7 siRNA (m): sc-154250, THAP7 shRNA Plasmid (h): sc-76651-SH, THAP7 shRNA Plasmid (m): sc-154250-SH, THAP7 shRNA (h) Lentiviral Particles: sc-76651-V and THAP7 shRNA (m) Lentiviral Particles: sc-154250-V.

THAP7 (N-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of THAP7: 34 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

## 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) 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.

## STORAGE

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

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Try **THAP7 (F-7): sc-515496**, our highly recommended monoclonal alternative to THAP7 (N-13).