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# THAP7 (m): 293T Lysate: sc-124033

## 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>CH 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 22q11.2.

## REFERENCES

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3. Macfarlan, T., Kutney, S., Altman, B., Montross, R., Yu, J. and Chakravarti, D. 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.
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## CHROMOSOMAL LOCATION

Genetic locus: Thap7 (mouse) mapping to 16 A3.

## RESEARCH USE

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

## PRODUCT

THAP7 (m): 293T Lysate represents a lysate of mouse THAP7 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

THAP7 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive THAP7 antibodies. Recommended use: 10-20  $\mu$ l per lane.

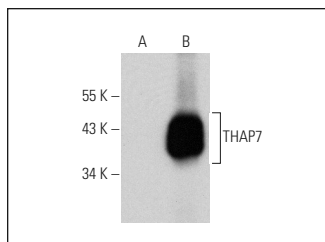
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

THAP7 (F-7): sc-515496 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse THAP7 expression in THAP7 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



THAP7 (F-7): sc-515496. Western blot analysis of THAP7 expression in non-transfected: sc-117752 (A) and mouse THAP7 transfected: sc-124033 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

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