



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# TRIP13 (h): 293T Lysate: sc-369956

## BACKGROUND

Thyroid hormone receptors (TRs) are transcription factors that regulate the expression of specific genes in a hormone-dependent manner. TRIP13 (thyroid hormone receptor interactor 13), also called 16E1BP, is a transcription factor that interacts with the ligand binding domain of the thyroid receptor (TR) as well as a variety of target genes including human papilloma virus type 16 (HPV16) E1. Unlike most TRIP proteins which function only in the presence of hormones, TRIP13 does not require the presence of thyroid hormone to interact with TR. The association of TRIP13 with (HPV16) E1 suggests that TRIP13 may have tumor suppressor gene function. TRIP13 is a 432 amino acid protein with 2 different isoforms produced by alternative splicing.

## REFERENCES

- Lee, J.W., Choi, H.S., Gyuris, J., Brent, R. and Moore, D.D. 1995. Two classes of proteins dependent on either the presence or absence of thyroid hormone for interaction with the thyroid hormone receptor. *Mol. Endocrinol.* 9: 243-254.
- Yasugi, T., Vidal, M., Sakai, H., Howley, P.M. and Benson, J.D. 1997. Two classes of human papillomavirus type 16 E1 mutants suggest pleiotropic conformational constraints affecting E1 multimerization, E2 interaction, and interaction with cellular proteins. *J. Virol.* 71: 5942-5951.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 604507. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Arias-Pulido, H., Narayan, G., Vargas, H., Mansukhani, M. and Murty, V.V. 2004. Mapping common deleted regions on 5p15 in cervical carcinoma and their occurrence in precancerous lesions. *Mol. Cancer* 1: 3.
- Li, X.C., Li, X. and Schimenti, J.C. 2007. Mouse pachytene checkpoint 2 (trip13) is required for completing meiotic recombination but not synapsis. *PLoS Genet.* 3: e130.

## CHROMOSOMAL LOCATION

Genetic locus: TRIP13 (human) mapping to 5p15.33.

## PRODUCT

TRIP13 (h): 293T Lysate represents a lysate of human TRIP13 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## RESEARCH USE

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

## APPLICATIONS

TRIP13 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TRIP13 antibodies. Recommended use: 10-20 µl per lane.

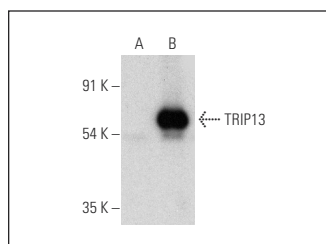
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TRIP13 (A-7): sc-514285 is recommended as a positive control antibody for Western Blot analysis of enhanced human TRIP13 expression in TRIP13 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-IgGκ BP-HRP: sc-516102 or m-IgGκ 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



TRIP13 (A-7): sc-514285. Western blot analysis of TRIP13 expression in non-transfected: sc-117752 (A), human TRIP13 transfected: sc-369956 (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.