

TRIM29 (h): 293T Lysate: sc-112361

BACKGROUND

Ataxia-telangiectasia (AT) is an autosomal recessive human genetic disease characterized by an elevated risk of cancer, immune defects, genetic instability and an increased sensitivity to radiation. For example, 10-15% of AT patients suffer an extremely high incidence of lymphoid malignancies including both T and B cell tumors by early adulthood. Interestingly, there is a total absence of myeloid tumors in these patients. Although AT homozygotes are rare, the AT gene is likely to play a role in sporadic breast cancer and other common cancers. The human AT gene has been mapped to chromosome 11q23.3. The AT group D complementing gene has been cloned. The protein, designated TRIM29, or ATDC, has been shown to interact with the intermediate filament protein vimentin, a substrate for the PKC family of protein kinases, and with hPKC1-1, an inhibitor of the PKCs. Examination of the predicted TRIM29 amino acid sequence has revealed the presence of both zinc finger and leucine zipper motifs, suggesting that the protein may form homodimers and possibly associate with DNA.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRIM29 (human) mapping to 11q23.3.

PRODUCT

TRIM29 (h): 293T Lysate represents a lysate of human TRIM29 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

TRIM29 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive TRIM29 antibodies. Recommended use: 10-20 µl per lane.

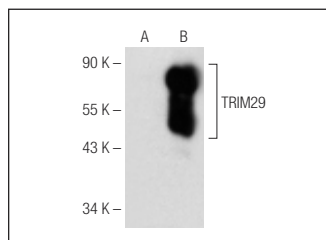
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TRIM29 (B-11): sc-374074 is recommended as a positive control antibody for Western Blot analysis of enhanced human TRIM29 expression in TRIM29 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

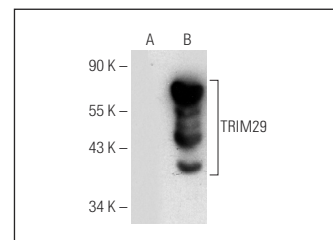
RECOMMENDED SUPPORT REAGENTS

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



TRIM29 (B-11): sc-374074. Western blot analysis of TRIM29 expression in non-transfected: sc-117752 (A) and human TRIM29 transfected: sc-112361 (B) 293T whole cell lysates.



TRIM29 (C-2): sc-376125. Western blot analysis of TRIM29 expression in non-transfected: sc-117752 (A) and human TRIM29 transfected: sc-112361 (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 or our catalog for detailed protocols and support products.