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# RNF219 (m): 293T Lysate: sc-123239

## BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. RNF219 (ring finger protein 219) is a 726 amino acid protein that contains one RING-type zinc finger through which it may play a role in transcriptional regulation and protein degradation events. In response to DNA damage, RNF219 is subject to phosphorylation, probably by ATM or ATR. The gene encoding RNF219 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

## REFERENCES

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5. Hsu, H.F. and Hou, J.W. 2007. Variable expressivity in Patau syndrome is not all related to trisomy 13 mosaicism. *Am. J. Med. Genet. A* 143A: 1739-1748.
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## CHROMOSOMAL LOCATION

Genetic locus: Rnf219 (mouse) mapping to 14 E2.3.

## PRODUCT

RNF219 (m): 293T Lysate represents a lysate of mouse RNF219 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## 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.

## APPLICATIONS

RNF219 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive RNF219 antibodies. Recommended use: 10-20 µl per lane.

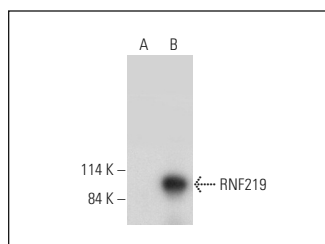
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RNF219 (A-4): sc-514812 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse RNF219 expression in RNF219 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



RNF219 (A-4): sc-514812. Western blot analysis of RNF219 expression in non-transfected: sc-117752 (A) and mouse RNF219 transfected: sc-123239 (B) 293T whole cell lysates.

## RESEARCH USE

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