SANTA CRUZ BIOTECHNOLOGY, INC.

# ZNRF3 (h2): 293T Lysate: sc-158167

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*The Power to Question*

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. 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. The three classes of enzymes involved in ubiquitination are the ubiquitin-activating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). ZNRF3 (zinc/RING finger protein 3), also known as RNF203 (RING finger protein 203), is a 936 amino acid single pass trans-membrane protein that contains one RING-type zinc finger. Related zinc/RING finger proteins, such as ZNRF1 and ZNRF2, are E3 ubiquitin-protein ligases that are thought to be involved in the establishment and maintenance of neuronal transmission and plasticity, therefore it is likely that ZNRF3 may function in a similar manner.

## REFERENCES


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3. Hochstrasser, M. 1995. Ubiquitin, proteasomes, and the regulation of intracellular protein degradation. Curr. Opin. Cell Biol. 7: 215-223.
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7. Araki, T. and Milbrandt, J. 2003. ZNRF proteins constitute a family of presynaptic E3 ubiquitin ligases. J. Neurosci. 23: 9385-9394.


## CHROMOSOMAL LOCATION

Genetic locus: ZNRF3 (human) mapping to 22q12.1.

## PRODUCT

ZNRF3 (h2): 293T Lysate represents a lysate of human ZNRF3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

ZNRF3 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive ZNRF3 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.

## 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.