SANTA CRUZ BIOTECHNOLOGY, INC.

# RNF207 (L-15): sc-165392

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*The Power to Question*

## 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. RNF207 (RING finger protein 207) is a 634 amino acid protein that contains one B box-type zinc finger and a RING-type zinc finger. Existing as four alternatively spliced isoforms, RNF207 is encoded by a gene that maps to human chromosome 1p36.31. Chromosome 1 spans 260 million base pairs, contains over 3,000 genes, comprises nearly 8% of the human genome and houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease and schizophrenia and Usher syndrome.

## REFERENCES


1. Freemont, P.S. 1993. The RING finger. A novel protein sequence motif related to the zinc finger. Ann. N.Y. Acad. Sci. 684: 174-192.
2. Borden, K.L., et al. 1996. The RING finger domain: a recent example of a sequence-structure family. Curr. Opin. Struct. Biol. 6: 395-401.
3. Lorick, K.L., et al. 1999. RING fingers mediate ubiquitin-conjugating enzyme (E2)-dependent ubiquitination. Proc. Natl. Acad. Sci. USA 96: 11364-11369.
4. Tayebi, N., et al. 2001. Gaucher disease and parkinsonism: a phenotypic and genotypic characterization. Mol. Genet. Metab. 73: 313-321.
5. Plasilova, M., et al. 2004. Exclusion of an extracolonic disease modifier locus on chromosome 1p33-36 in a large Swiss familial adenomatous polyposis kindred. Eur. J. Hum. Genet. 12: 365-371.
6. Betarbet, R., et al. 2008. Fas-associated factor 1 and Parkinson's disease. Neurobiol. Dis. 31: 309-315.
7. Holliday, E.G., et al. 2009. Strong evidence for a novel schizophrenia risk locus on chromosome 1p31.1 in homogeneous pedigrees from Tamil Nadu, India. Am. J. Psychiatry 166: 206-215.


## CHROMOSOMAL LOCATION

Genetic locus: RNF207 (human) mapping to 1p36.31; Rnf207 (mouse) mapping to 4 E2.

## SOURCE

RNF207 (L-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RNF207 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165392 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

RNF207 (L-15) is recommended for detection of RNF207 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other RNF family members.

RNF207 (L-15) is also recommended for detection of RNF207 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for RNF207 siRNA (h): sc-88004, RNF207 siRNA (m): sc-153036, RNF207 shRNA Plasmid (h): sc-88004-SH, RNF207 shRNA Plasmid (m): sc-153036-SH, RNF207 shRNA (h) Lentiviral Particles: sc-88004-V and RNF207 shRNA (m) Lentiviral Particles: sc-153036-V.

Molecular Weight (predicted) of RNF207 isoforms: 71/26/16/33 kDa.

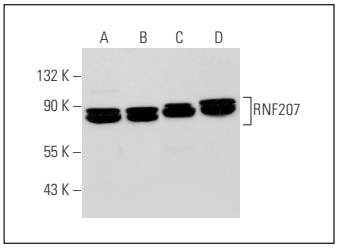
Molecular Weight (observed) of RNF207: 58 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, NCI-H460 whole cell lysate: sc-364235 or human tonsil tissue extract: sc-364263.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA




RNF207 (L-15): sc-165392. Western blot analysis of RNF207 expression in Jurkat (**A**), NCI-H460 (**B**) and U-251-MG (**C**) whole cell lysates and human tonsil tissue extract (**D**).

## STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

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