# SANTA CRUZ BIOTECHNOLOGY, INC.

# RNF214 (D-16): sc-138592



#### 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. RNF214 (RING finger protein 214) is a 703 amino acid protein that contains one RING-type zinc finger and is encoded by a gene that maps to human chromosome 11q23.3. Chromosome 11 houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

## REFERENCES

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- Fabiani, J.E., et al. 2000. Hereditary angioedema. Long-term follow-up of 88 patients. Experience of the Argentine allergy and immunology institute. Allergol. Immunopathol. 28: 267-271.
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- Siem, G., et al. 2008. Jervell and Lange-Nielsen syndrome in Norwegian children: aspects around cochlear implantation, hearing, and balance. Ear Hear. 29: 261-269.

#### CHROMOSOMAL LOCATION

Genetic locus: RNF214 (human) mapping to 11q23.3; Rnf214 (mouse) mapping to 9 A5.2.

#### SOURCE

RNF214 (D-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of RNF214 of human origin.

#### PRODUCT

Each vial contains 100  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138592 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-138592 X, 200  $\mu g/0.1$  ml.

### APPLICATIONS

RNF214 (D-16) is recommended for detection of RNF214 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other RNF family members.

RNF214 (D-16) is also recommended for detection of RNF214 in additional species, including equine and canine.

Suitable for use as control antibody for RNF214 siRNA (h): sc-96985, RNF214 siRNA (m): sc-153039, RNF214 shRNA Plasmid (h): sc-96985-SH, RNF214 shRNA Plasmid (m): sc-153039-SH, RNF214 shRNA (h) Lentiviral Particles: sc-96985-V and RNF214 shRNA (m) Lentiviral Particles: sc-153039-V.

RNF214 (D-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RNF214: 78 kDa.

Positive Controls: HEL 92.1.7 cell lysate: sc-2270 or K-562 whole cell lysate: sc-2203.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941.

## DATA



RNF214 (D-16): sc-138592. Western blot analysis of RNF214 expression in HEL 92.1.7 (A) and K-562 (B) whole cell lysates.

#### 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.