

# RNF133 (L-14): sc-163302

## BACKGROUND

RNF133 (RING finger protein 133), also known as E3 ubiquitin-protein ligase RNF133, is a 376 amino acid single pass membrane protein that contains one PA (protease associated) domain and one RING-type zinc finger. The RING finger domain is a motif present in a variety of functionally distinct proteins and is known to be involved in protein-protein and protein-DNA interactions. Post-translationally ubiquitinated, RNF133 has E3 ubiquitin-protein ligase activity. Lacking any introns, the gene that encodes RNF133 consists of approximately 1,445 bases and maps to human chromosome 7q31.32. Chromosome 7 houses over 1,000 genes, comprises nearly 5% of the human genome and has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The Lys-172 polymorphism in T2R16 is associated with genetic susceptibility to alcoholism.

## REFERENCES

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8. Leone, G., et al. 2007. Therapy-related leukemia and myelodysplasia: susceptibility and incidence. *Haematologica* 92: 1389-1398.
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## CHROMOSOMAL LOCATION

Genetic locus: RNF133 (human) mapping to 7q31.32; Rnf133 (mouse) mapping to 6 A3.1.

## SOURCE

RNF133 (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RNF133 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-163302 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

RNF133 (L-14) is recommended for detection of RNF133 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

Suitable for use as control antibody for RNF133 siRNA (h): sc-89368, RNF133 siRNA (m): sc-153011, RNF133 shRNA Plasmid (h): sc-89368-SH, RNF133 shRNA Plasmid (m): sc-153011-SH, RNF133 shRNA (h) Lentiviral Particles: sc-89368-V and RNF133 shRNA (m) Lentiviral Particles: sc-153011-V.

Molecular Weight of RNF133: 42 kDa.

## 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) 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.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.