

RNF138 (W-22): sc-133967

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. RNF138 (RING finger protein 138), also known as HSD4 or NARF, is a 245 amino acid protein that contains one RING-type zinc finger and functions as an E3 ubiquitin-protein ligase, playing an important role in protein ubiquitination. Expressed as multiple alternatively spliced isoforms, RNF138 interacts with Nlk and is thought to act as a negative regulator of the Wnt/ β -catenin-mediated signaling pathway. RNF138 may be auto-ubiquitinated and is subject to posttranslational phosphorylation, probably by ATM or ATR.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RNF138 (human) mapping to 18q12.1; Rnf138 (mouse) mapping to 18 A2.

SOURCE

RNF138 (W-22) is an affinity purified rabbit polyclonal antibody raised against synthetic RNF138 peptide of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

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

APPLICATIONS

RNF138 (W-22) is recommended for detection of RNF138 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

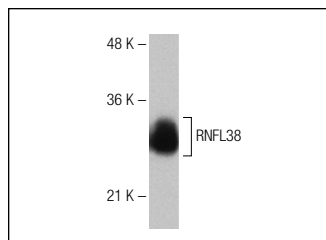
Suitable for use as control antibody for RNF138 siRNA (h): sc-75876, RNF138 siRNA (m): sc-153013, RNF138 shRNA Plasmid (h): sc-75876-SH, RNF138 shRNA Plasmid (m): sc-153013-SH, RNF138 shRNA (h) Lentiviral Particles: sc-75876-V and RNF138 shRNA (m) Lentiviral Particles: sc-153013-V.

Molecular Weight of RNF138: 28 kDa.

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™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

DATA



RNF138 (W-22): sc-133967. Western blot analysis of human RNF138 transfected 293T whole cell lysate.

RESEARCH USE

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

PROTOCOLS

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