

RNF130 (W-21): sc-133966

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. RNF130 (ring finger protein 130), also known as GP, G1RZFP (G1-related zinc finger protein) or GOLIATH, is a 419 amino acid single-pass type I membrane protein that shares similarity with a *Drosophila* zinc-finger protein found in mesoderm known as γ 1. RNF130 contains one PA (protease associated) domain and a single RING-type zinc finger. Implicated in the regulation of growth factor withdrawal-induced apoptosis of myeloid precursor cells, RNF130 is encoded by a gene located on human chromosome 5q35.3 and mouse chromosome 11 B1.3.

REFERENCES

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2. Saurin, A.J., Borden, K.L., Boddy, M.N. and Freemont, P.S. 1996. Does this have a familiar RING? *Trends Biochem. Sci.* 21: 208-214.
3. Lorick, K.L., Jensen, J.P., Fang, S., Ong, A.M., Hatakeyama, S. and Weissman, A.M. 1999. RING fingers mediate ubiquitin-conjugating enzyme (E2)-dependent ubiquitination. *Proc. Natl. Acad. Sci. USA* 96: 11364-11369.
4. Baker, S.J. and Reddy, E.P. 2000. Cloning of murine G1RP, a novel gene related to *Drosophila melanogaster* γ 1. *Gene* 248: 33-40.
5. Guais, A., Solhonne, B., Melaine, N., Guellaen, G. and Bulle, F. 2004. Goliath, a ring-H2 mitochondrial protein, regulated by luteinizing hormone/human chorionic Gonadotropin in rat leydig cells. *Biol. Reprod.* 70: 204-213.
6. Guais, A., Siegrist, S., Solhonne, B., Jouault, H., Guellaen, G. and Bulle, F. 2006. η -Goliath, paralog of GRAIL, is a new E3 ligase protein, expressed in human leukocytes. *Gene* 374: 112-120.

CHROMOSOMAL LOCATION

Genetic locus: RNF130 (human) mapping to 5q35.3; Rnf130 (mouse) mapping to 11 B1.3.

SOURCE

RNF130 (W-21) is a Protein A purified rabbit polyclonal antibody raised against synthetic RNF130 peptide of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml 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

RNF130 (W-21) is recommended for detection of RNF130 of mouse, rat 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 RNF130 siRNA (h): sc-91644, RNF130 siRNA (m): sc-153010, RNF130 shRNA Plasmid (h): sc-91644-SH, RNF130 shRNA Plasmid (m): sc-153010-SH, RNF130 shRNA (h) Lentiviral Particles: sc-91644-V and RNF130 shRNA (m) Lentiviral Particles: sc-153010-V.

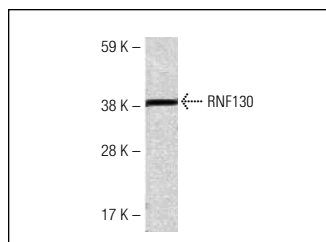
Molecular Weight of RNF130: 46 kDa.

Positive Controls: RNF130 (m): 293T Lysate: sc-125933 or Human fetal thymus tissue extract.

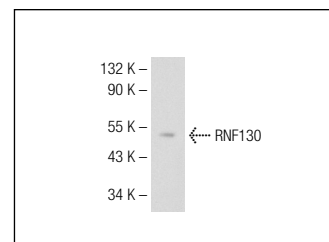
RECOMMENDED SECONDARY REAGENTS

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



RNF130 (W-21): sc-133966. Western blot analysis of RNF130 expression in human fetal thymus tissue extract.



RNF130 (W-21): sc-133966. Western blot analysis of RNF130 expression in mouse thymus tissue extract.

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.