

RNF130 (G-14): sc-107088

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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- 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.
- 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.
- 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 (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of RNF130 of human origin.

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 or our catalog for detailed protocols and support products.

PRODUCT

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

Blocking peptide available for competition studies, sc-107088 P, (100 μ 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-107088 X, 200 μ g/0.1 ml.

APPLICATIONS

RNF130 (G-14) 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), 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).

RNF130 (G-14) is also recommended for detection of RNF130 in additional species, including canine and bovine.

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.

RNF130 (G-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of RNF130: 46 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.

RESEARCH USE

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