

RNF184 (N-13): sc-103156

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. RNF184 (male-specific lethal 2 homolog), or male-specific lethal 2-like 1, RING finger protein 184, male-specific lethal-2 homolog 1, MSL-2, MSL2, MSL2L1, KIAA1585, FLJ54913 or FLJ10546 is a member of the MSL2 family and contains 577 amino acids. RNF184 associates with MSL-1, MSL3L1 and MOF, to form a multisubunit histone acetyltransferase complex, which functions to assist in higher-order chromatin structure via acetylation of Histone H4 on lysine 16. RNF184 contains one RING-type zinc finger, and the gene encoding RNF184 maps to human chromosome 3q22.3.

REFERENCES

1. Zhou, S., Yang, Y., Scott, M.J., Pannuti, A., Fehr, K.C., Eisen, A., Koonin, E.V., Fouts, D.L., Wrightsman, R. and Manning, J.E. 1995. Male-specific lethal 2, a dosage compensation gene of *Drosophila*, undergoes sex-specific regulation and encodes a protein with a RING finger and a metallothionein-like cysteine cluster. *EMBO J.* 14: 2884-2895.
2. Borden, K.L. and Freemont, P.S. 1996. The RING finger domain: a recent example of a sequence-structure family. *Curr. Opin. Struct. Biol.* 6: 395-401.
3. Lyman, L.M., Copps, K., Rastelli, L., Kelley, R.L. and Kuroda, M.I. 1997. *Drosophila* male-specific lethal-2 protein: structure/function analysis and dependence on MSL-1 for chromosome association. *Genetics* 147: 1743-1753.
4. 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.

CHROMOSOMAL LOCATION

Genetic locus: MSL2 (human) mapping to 3q22.3; Msl2 (mouse) mapping to 9 E4.

SOURCE

RNF184 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RNF184 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-103156 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

RNF184 (N-13) is recommended for detection of RNF184 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 Histone family members.

RNF184 (N-13) is also recommended for detection of RNF184 in additional species, including canine and avian.

Suitable for use as control antibody for RNF184 siRNA (h): sc-78467, RNF184 siRNA (m): sc-153031, RNF184 shRNA Plasmid (h): sc-78467-SH, RNF184 shRNA Plasmid (m): sc-153031-SH, RNF184 shRNA (h) Lentiviral Particles: sc-78467-V and RNF184 shRNA (m) Lentiviral Particles: sc-153031-V.

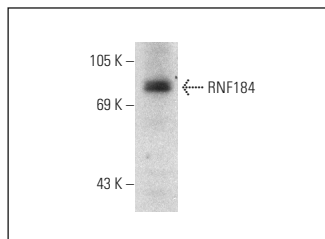
Molecular Weight of RNF184: 62 kDa.

Positive Controls: mouse brain extract: sc-2253.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



RNF184 (N-13): sc-103156. Western blot analysis of RNF184 expression in mouse brain 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.