

RNF152 (F-6): sc-398391

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. RNF152 (RING finger protein 152) is a 203 amino acid protein that contains one RING-type zinc finger and may be involved in protein degradation events throughout the cell. The gene encoding RNF152 maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

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2. Freemont, P.S. 1993. The RING-finger. A novel protein sequence motif related to the zinc finger. *Ann. N.Y. Acad. Sci.* 684: 174-192.
3. Borden, K.L., et al. 1996. The RING-finger domain: a recent example of a sequence-structure family. *Curr. Opin. Struct. Biol.* 6: 395-401.
4. Petek, E., et al. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. *Genet. Couns.* 14: 239-244.
5. Raghavan, S.C., et al. 2004. A non-B-DNA structure at the Bcl-2 major breakpoint region is cleaved by the RAG complex. *Nature* 428: 88-93.
6. Grosso, S., et al. 2005. Chromosome 18 aberrations and epilepsy: a review. *Am. J. Med. Genet. A* 134A: 88-94.

CHROMOSOMAL LOCATION

Genetic locus: RNF152 (human) mapping to 18q21.33; Rnf152 (mouse) mapping to 1 E2.1.

SOURCE

RNF152 (F-6) is a mouse monoclonal antibody raised against amino acids 65-130 mapping within an internal region of RNF152 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RNF152 (F-6) is available conjugated to agarose (sc-398391 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398391 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398391 PE), fluorescein (sc-398391 FITC), Alexa Fluor® 488 (sc-398391 AF488), Alexa Fluor® 546 (sc-398391 AF546), Alexa Fluor® 594 (sc-398391 AF594) or Alexa Fluor® 647 (sc-398391 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398391 AF680) or Alexa Fluor® 790 (sc-398391 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

RNF152 (F-6) is recommended for detection of RNF152 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for RNF152 siRNA (h): sc-76415, RNF152 siRNA (m): sc-153020, RNF152 shRNA Plasmid (h): sc-76415-SH, RNF152 shRNA Plasmid (m): sc-153020-SH, RNF152 shRNA (h) Lentiviral Particles: sc-76415-V and RNF152 shRNA (m) Lentiviral Particles: sc-153020-V.

Molecular Weight (predicted) of RNF152: 22 kDa.

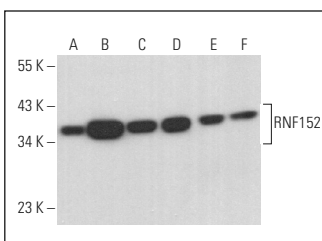
Molecular Weight (observed) of RNF152: 35-54 kDa.

Positive Controls: H4 cell lysate: sc-2408, IMR-32 cell lysate: sc-2409 or T98G cell lysate: sc-2294.

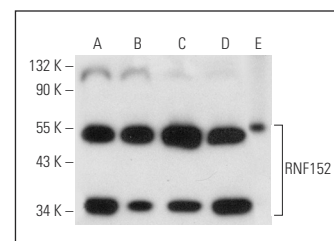
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



RNF152 (F-6): sc-398391. Western blot analysis of RNF152 expression in SK-N-SH (A), SH-SY5Y (B), Neuro-2A (C) and EOC 20 (D) whole cell lysates and mouse brain (E) and rat hippocampus (F) tissue extracts.



RNF152 (F-6): sc-398391. Western blot analysis of RNF152 expression in T98G (A), IMR-32 (B), SK-N-MC (C) and H4 (D) whole cell lysates and human hippocampus tissue extract (E).

STORAGE

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

RESEARCH USE

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