

Rfp2 (G-18): sc-69605

BACKGROUND

The tripartite motif (TRIM) family of proteins are characterized by a conserved TRIM domain that includes a coiled-coil region, a B box-type zinc finger, one RING finger and three zinc-binding domains. Rfp2 (Ret finger protein 2), also known as TRIM13 (tripartite motif-containing 13), CAR, RNF77 or LEU5, is a 407 amino acid protein that belongs to the TRIM protein family and contains one B box-type zinc finger and one RING-type zinc finger. Existing as two alternatively spliced isoforms designated α and β , Rfp2 is thought to act as a tumor suppressor that, when defective, may be involved in the development and progression of B-cell chronic lymphocytic leukemia. Additionally, Rfp2 may function as an E3 ubiquitin ligase that is involved in protein degradation pathways related to the ER-associated degradation (ERAD) pathway.

REFERENCES

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- Liu, Y., et al. 1995. 13q deletions in lymphoid malignancies. *Blood* 86: 1911-1915.
- Kapanadze, B., et al. 1998. A cosmid and cDNA fine physical map of a human chromosome 13q14 region frequently lost in B-cell chronic lymphocytic leukemia and identification of a new putative tumor suppressor gene, Leu5. *FEBS Lett.* 426: 266-270.
- Reymond, A., et al. 2001. The tripartite motif family identifies cell compartments. *EMBO J.* 20: 2140-2151.
- van Everdink, W.J., et al. 2003. Rfp2, c13ORF1, and FAM10A4 are the most likely tumor suppressor gene candidates for B-cell chronic lymphocytic leukemia. *Cancer Genet. Cytogenet.* 146: 48-57.
- Corcoran, M.M., et al. 2004. DLEU2 encodes an antisense RNA for the putative bicistronic Rfp2/LEU5 gene in humans and mouse. *Genes Chromosomes Cancer* 40: 285-297.

CHROMOSOMAL LOCATION

Genetic locus: TRIM13 (human) mapping to 13q14.2; Trim13 (mouse) mapping to 14 D1.

SOURCE

Rfp2 (G-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Rfp2 of human origin.

PRODUCT

Each vial contains 100 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-69605 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Rfp2 (G-18) is recommended for detection of Rfp2 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)], 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).

Rfp2 (G-18) is also recommended for detection of Rfp2 in additional species, including equine, canine, bovine, porcine and avian.

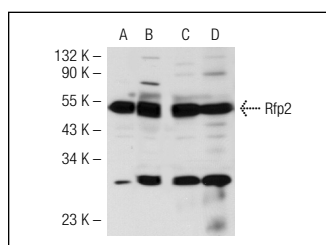
Suitable for use as control antibody for Rfp2 siRNA (h): sc-76392, Rfp2 siRNA (m): sc-76393, Rfp2 shRNA Plasmid (h): sc-76392-SH, Rfp2 shRNA Plasmid (m): sc-76393-SH, Rfp2 shRNA (h) Lentiviral Particles: sc-76392-V and Rfp2 shRNA (m) Lentiviral Particles: sc-76393-V.

Molecular Weight (predicted) of Rfp2: 47 kDa.

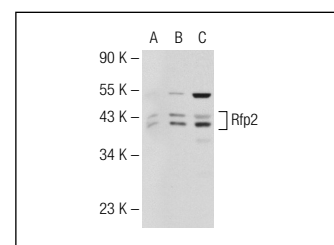
Molecular Weight (observed) of Rfp2: 42-54 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, SK-N-MC cell lysate: sc-2237 or Rfp2 (h2): 293T Lysate: sc-172517.

DATA



Rfp2 (G-18): sc-69605. Western blot analysis of Rfp2 expression in HEK293 (A) and IMR-32 (B) whole cell lysates and mouse embryo (C) and mouse lymph node (D) tissue extracts.



Rfp2 (G-18): sc-69605. Western blot analysis of Rfp2 expression in non-transfected 293T: sc-117752 (A), human Rfp2 transfected 293T: sc-172517 (B) and SK-N-MC (C) whole cell lysates.

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.


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Try **Rfp2 (E-6): sc-393257** or **Rfp2 (A-2): sc-398129**, our highly recommended monoclonal alternatives to Rfp2 (G-18).