# Rfp2 (A-2): sc-398129



The Power to Question

### **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  $\alpha$  and  $\beta$ , 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**

- Liu, Y., et al. 1993. Chronic lymphocytic leukemia cells with allelic deletions at 13q14 commonly have one intact RB1 gene: evidence for a role of an adjacent locus. Proc. Natl. Acad. Sci. USA 90: 8697-8701.
- Liu, Y., et al. 1995. 13q deletions in lymphoid malignancies. Blood 86: 1911-1915.

### **CHROMOSOMAL LOCATION**

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

#### **SOURCE**

Rfp2 (A-2) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 34-51 near the N-terminus of Rfp2 of human origin.

## **PRODUCT**

Each vial contains 200  $\mu g$   $lgG_{2a}$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-398129 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## **APPLICATIONS**

Rfp2 (A-2) is recommended for detection of Rfp2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

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.

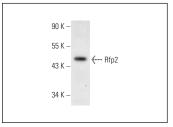
Molecular Weight (observed) of Rfp2: 42-54 kDa.

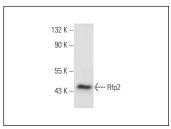
Positive Controls: IMR-32 cell lysate: sc-2409 or SK-N-MC cell lysate: sc-2237.

### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> 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-lgG $\kappa$  BP-FITC: sc-516140 or m-lgG $\kappa$  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**





Rfp2 (A-2): sc-398129. Western blot analysis of Rfp2 expression in IMR-32 whole cell lysate.

Rfp2 (A-2): sc-398129. Western blot analysis of Rfp2 expression in SK-N-MC whole cell lysate.

## **SELECT PRODUCT CITATIONS**

- 1. Andersson-Rolf, A., et al. 2017. One-step generation of conditional and reversible gene knockouts. Nat. Methods 14: 287-289.
- 2. Romero-Trejo, D., et al. 2021. The systemic administration of neural stem cells expressing an inducible and soluble form of growth arrest specific 1 inhibits mammary gland tumor growth and the formation of metastases. Cytotherapy 23: 223-235.
- 3. Govatati, S., et al. 2024. TRIM13 reduces cholesterol efflux and increases oxidized LDL uptake leading to foam cell formation and atherosclerosis. J. Biol. Chem. 300: 107224.

#### 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.

## **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.