

# Rfp2 (H-300): sc-98606

## 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

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- Skoblov, M., et al. 2006. Human Rfp2 gene promoter: unique structure and unusual strength. *Biochem. Biophys. Res. Commun.* 342: 859-866.
- Lerner, M., et al. 2007. The RBCC gene Rfp2 (Leu5) encodes a novel transmembrane E3 ubiquitin ligase involved in ERAD. *Mol. Biol. Cell* 18: 1670-1682.

## CHROMOSOMAL LOCATION

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

## SOURCE

Rfp2 (H-300) is a rabbit polyclonal antibody raised against amino acids 212-309 mapping at the C-terminus of Rfp2 of human origin.

## PRODUCT

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

## APPLICATIONS

Rfp2 (H-300) 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  $\mu$ 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).

Rfp2 (H-300) is also recommended for detection of Rfp2 in additional species, including equine, canine, bovine and porcine.

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 HEK293 whole cell lysate: sc-45136.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **Rfp2 (E-6): sc-393257** or **Rfp2 (A-2): sc-398129**, our highly recommended monoclonal alternatives to Rfp2 (H-300).