

Rfp2 (N-15): sc-69606

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.

CHROMOSOMAL LOCATION

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

SOURCE

Rfp2 (N-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus 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-69606 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 (N-15) 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), immunohistochemistry (including paraffin-embedded sections) (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 (N-15) is also recommended for detection of Rfp2 in additional species, including canine.

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.

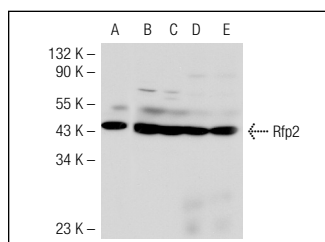
Molecular Weight (observed) of Rfp2: 42-54 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, SK-N-MC cell lysate: sc-2237 or HEK293 whole cell lysate: sc-45136.

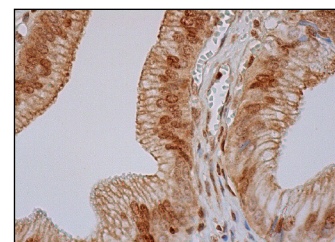
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Rfp2 (N-15): sc-69606. Western blot analysis of Rfp2 expression in HEK293 (A), IMR-32 (B) and SK-N-MC (C) whole cell lysates and mouse embryo (D) and mouse lymph node (E) tissue extracts.



Rfp2 (N-15): sc-69606. Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing cytoplasmic, membrane and nuclear staining of glandular cells.

SELECT PRODUCT CITATIONS

- Donninger, H., et al. 2015. NORE1A is a Ras senescence effector that controls the apoptotic/senescent balance of p53 via HIPK2. *J. Cell Biol.* 208: 777-789.

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 (N-15).