SANTA CRUZ BIOTECHNOLOGY, INC.

RNF121 (A-18): sc-102091

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. RNF121 (RING finger protein 121) is a 327 amino acid multi-pass membrane protein that contains one RING-type zinc finger. Via its RING-type zinc finger, RNF121 may play a role in transcriptional regulation and protein degradation events. Multiple isoforms of RNF121 exist due to alternative splicing events.

REFERENCES

1. Borden, K.L. and Freemont, P.S. 1996. The RING finger domain: a recent example of a sequence-structure family. Curr. Opin. Struct. Biol. 6: 395-401.
2. Lorick, K.L., et al. 1999. RING fingers mediate ubiquitin-conjugating enzyme (E2)-dependent ubiquitination. Proc. Natl. Acad. Sci. USA 96: 11364-11369.
3. Colland, F., et al. 2004. Functional proteomics mapping of a human signaling pathway. Genome Res. 14: 1324-1332.

CHROMOSOMAL LOCATION

Genetic locus: RNF121 (human) mapping to 11q13.4; Rnf121 (mouse) mapping to 7 E3.

SOURCE

RNF121 (A-18) is a purified rabbit polyclonal antibody raised against RNF121 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

RNF121 (A-18) is recommended for detection of RNF121 of mouse, rat, human and dog origin by Western Blotting (starting dilution 1:200, 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), 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).

Suitable for use as control antibody for RNF121 siRNA (h): sc-96699, RNF121 siRNA (m): sc-153004, RNF121 shRNA Plasmid (h): sc-96699-SH, RNF121 shRNA Plasmid (m): sc-153004-SH, RNF121 shRNA (h) Lentiviral Particles: sc-96699-V and RNF121 shRNA (m) Lentiviral Particles: sc-153004-V.

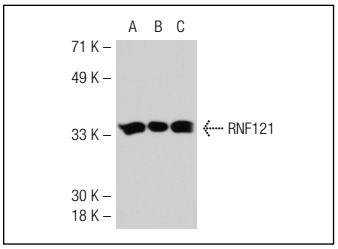
Molecular Weight of RNF121: 38 kDa.

Positive Controls: RNF121 (h): 293T Lysate: sc-111296 or Jurkat whole cell lysate: sc-2204.

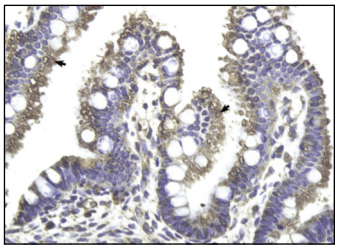
RECOMMENDED SECONDARY REAGENTS

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



RNF121 (A-18): sc-102091. Western blot analysis of RNF121 expression in non-transfected 293T: sc-117752 (**A**), human RNF121 transfected 293T: sc-111296 (**B**) and Jurkat (**C**) whole cell lysates.



RNF121 (A-18): sc-102091. Immunoperoxidase staining of formalin fixed, paraffin-embedded human intestine tissue showing cytoplasmic staining.

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 or our catalog for detailed protocols and support products.