

# RIP3 (H-43): sc-135170

## BACKGROUND

The death domain is a cytoplasmic domain of approximately 80 amino acids that is necessary for the transduction of apoptotic signals and is present in the apoptosis-mediating receptors TNF-R1 and FAS. Other death domain-containing, but otherwise structurally unrelated proteins have been identified on the basis of their ability to associate with the cytoplasmic domains of TNF-R1 or FAS. One of these proteins, the receptor-interacting protein 3 (RIP3), contains an N-terminal kinase domain and shares extensive homology with RIP and RIP2. However, RIP3 contains a unique C-terminal death domain, which promotes apoptosis. RIP3 can be expressed as two splice variants, RIP3 $\beta$  and RIP3 $\gamma$ , which contain a truncated N-terminal kinase domain and a distinct and shorter C-terminus. Subsequently, expression of these splice variants downregulates RIP3-mediated apoptosis.

## REFERENCES

1. Sun, X., et al. 1999. RIP3, a novel apoptosis-inducing kinase. *J. Biol. Chem.* 274: 16871-16875.
2. Yu, P.W., et al. 1999. Identification of RIP3, a RIP-like kinase that activates apoptosis and NF $\kappa$ B. *Curr. Biol.* 9: 539-542.

## CHROMOSOMAL LOCATION

Genetic locus: RIPK3 (human) mapping to 14q12; Ripk3 (mouse) mapping to 14 C3.

## SOURCE

RIP3 (H-43) is a rabbit polyclonal antibody raised against amino acids 138-180 mapping within an internal region of RIP3 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

RIP3 (H-43) is recommended for detection of RIP3 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).

RIP3 (H-43) is also recommended for detection of RIP3 in additional species, including porcine.

Suitable for use as control antibody for RIP3 siRNA (h): sc-61482, RIP3 siRNA (m): sc-61483, RIP3 shRNA Plasmid (h): sc-61482-SH, RIP3 shRNA Plasmid (m): sc-61483-SH, RIP3 shRNA (h) Lentiviral Particles: sc-61482-V and RIP3 shRNA (m) Lentiviral Particles: sc-61483-V.

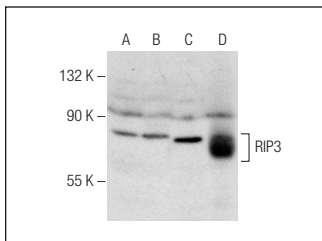
Molecular Weight of RIP3: 60 kDa.

Positive Controls: human small intestine extract: sc-364225, human kidney extract: sc-363764 or HeLa whole cell lysate: sc-2200.

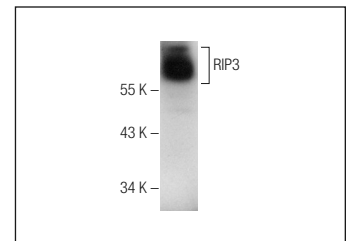
## RECOMMENDED SECONDARY REAGENTS

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.

## DATA



RIP3 (H-43): sc-135170. Western blot analysis of RIP3 expression in Jurkat (A), IMR-32 (B) and HeLa (C) whole cell lysates and human kidney tissue extract (D).



RIP3 (H-43): sc-135170. Western blot analysis of RIP3 expression in human small intestine tissue extract.

## 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.


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Try **RIP3 (B-2): sc-374639** or **RIP3 (Rippy-3): sc-56228**, our highly recommended monoclonal alternatives to RIP3 (H-43). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **RIP3 (B-2): sc-374639**.