

RIP/Rab (H-300): sc-33801

BACKGROUND

HIV-1 Rev is the prototype of a class of retroviral regulatory proteins that control the sequence-specific nuclear export and translation of a class of incompletely spliced HIV-1 mRNAs that encode viral structural proteins. In the absence of Rev, these late viral RNAs remain sequestered in the nucleus until they are either spliced or degraded. The protein designated Rev interacting protein (RIP) or Rev/Rex activation domain-binding protein (Rab) contains 562 amino acids. RIP/Rab has been identified as a cellular cofactor that binds not only to the HIV-1 Rev activation domain, but also to equivalent domains of other Rev and Rex proteins. On the basis of these findings it has been speculated that RIP/Rab is required for the Rev response and thus for HIV-1 replication.

REFERENCES

1. Ragheb, J.A., et al. 1995. Analysis of *trans*-dominant mutants of the HIV type 1 Rev protein for their ability to inhibit Rev function, HIV type 1 replication, and their use as anti-HIV gene therapeutics. *AIDS Res. Hum. Retroviruses* 11: 1343-1353.
2. Fischer, U., et al. 1995. The HIV-1 Rev activation domain is a nuclear export signal that accesses an export pathway used by specific cellular RNAs. *Cell* 82: 475-483.
3. Wu, B.Y., et al. 1995. Regulation of human retroviral latency by the NF κ B/I κ B family: inhibition of human immunodeficiency virus replication by I κ B through a Rev-dependent mechanism. *Proc. Natl. Acad. Sci. USA* 92: 1480-1484.
4. Bogerd, H.P., et al. 1995. Identification of a novel cellular cofactor for the Rev/Rex class of retroviral regulatory proteins. *Cell* 82: 485-494.
5. Fritz, C.C., et al. 1995. A human nucleoporin-like protein that specifically interacts with HIV Rev. *Nature* 376: 530-533.
6. Bevec, D., et al. 1996. Inhibition of HIV-1 replication in lymphocytes by mutants of the Rev cofactor eIF-5A. *Science* 271: 1858-1860.
7. Kubota, S., et al. 1996. Nuclear preservation and cytoplasmic degradation of human immunodeficiency virus type 1 Rev protein. *J. Virol.* 70: 1282-1287.

CHROMOSOMAL LOCATION

Genetic locus: HRB (human) mapping to 2q36; Hrb (mouse) mapping to 1 C5.

SOURCE

RIP/Rab (H-300) is a rabbit polyclonal antibody raised against amino acids 263-562 mapping at the C-terminus of RIP/Rab of human origin.

PRODUCT

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

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

RIP/Rab (H-300) is recommended for detection of RIP/Rab 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

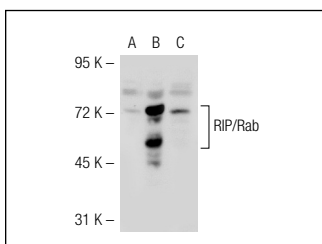
Suitable for use as control antibody for RIP/Rab siRNA (h): sc-40913, RIP/Rab siRNA (m): sc-40914, RIP/Rab shRNA Plasmid (h): sc-40913-SH, RIP/Rab shRNA Plasmid (m): sc-40914-SH, RIP/Rab shRNA (h) Lentiviral Particles: sc-40913-V and RIP/Rab shRNA (m) Lentiviral Particles: sc-40914-V.

Molecular Weight: 58 kDa.

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



RIP/Rab (H-300): sc-33801. Western blot analysis of RIP/Rab expression in non-transfected 293T: sc-117752 (A), mouse RIP/Rab transfected 293T: sc-123208 (B) and Jurkat (C) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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Try **RIP/Rab (H-2): sc-166651**, our highly recommended monoclonal alternative to RIP/Rab (H-300).