

RIP/Rab (C-19): sc-1424

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.

CHROMOSOMAL LOCATION

Genetic locus: AGFG1 (human) mapping to 2q36.3; Agfg1 (mouse) mapping to 1 C5.

SOURCE

RIP/Rab (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of RIP/Rab of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-1424 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RIP/Rab (C-19) 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 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), indirect flow cytometry (1 µg per 1 x 10⁶ cells) using FITC-conjugated donkey anti-goat IgG: sc-2024 and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RIP/Rab (C-19) 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 of RIP/Rab: 58 kDa.

Positive Controls: RIP/Rab (m): 293T Lysate: sc-123208, K-562 whole cell lysate: sc-2203 or SK-BR-3 cell lysate: sc-2218.

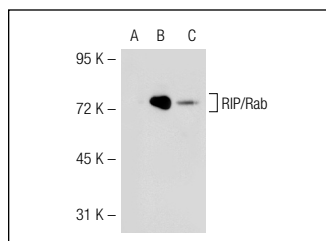
STORAGE

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

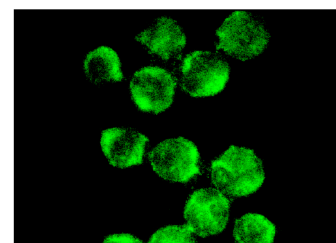
RESEARCH USE

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

DATA



RIP/Rab (C-19): sc-1424. 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.



RIP/Rab (C-19): sc-1424. Immunofluorescence staining of methanol-fixed K-562 cells showing nuclear staining.

SELECT PRODUCT CITATIONS

- Sanchez-Velar, N., et al. 2004. hRIP, a cellular cofactor for Rev function, promotes release of HIV RNAs from the perinuclear region. *Genes Dev.* 1: 23-34.
- Chaineau, M., et al. 2008. Role of HRB in clathrin-dependent endocytosis. *J. Biol. Chem.* 283: 34365-34373.
- Umasankar, P.K., et al. 2012. Distinct and separable activities of the endocytic clathrin-coat components Fcho1/2 and AP-2 in developmental patterning. *Nat. Cell Biol.* 14: 488-501.
- Umasankar, P.K., et al. 2014. A clathrin coat assembly role for the muniscin protein central linker revealed by TALEN-mediated gene editing. *ELife* 3: e04137.

PROTOCOLS

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Try **RIP/Rab (H-2): sc-166651**, our highly recommended monoclonal alternative to RIP/Rab (C-19).