**HIV-1 Rev (Rev-4): sc-69729**

**BACKGROUND**

Human immunodeficiency virus (HIV) is a retrovirus that causes acquired immune deficiency syndrome (AIDS), a condition in humans in which the immune system begins to fail, leading to life-threatening opportunistic infections. HIV mainly infects vital cells in the human immune system such as helper T cells (specifically CD4+ T cells), macrophages and dendritic cells. Two species of HIV infect humans: HIV-1 and HIV-2, with HIV-1 being the more virulent strain. p17 is a structural matrix protein of HIV-1 that enters the nucleus rapidly after viral synthesis. HIV-1 Rev is an RNA-binding, transactivator protein that is readily phosphorylated at separate regions by protein kinase CK2 and MAP kinase. Rev plays a role in viral replication, and it specifically induces the accumulation in the cytoplasm of intron-containing mRNAs normally kept in the nucleus.

**REFERENCES**


**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HIV-1 Rev (Rev-4) is available conjugated to agarose (sc-69729 AC), 500 µg/0.25 ml agarose in 1 ml for IP; to HRP (sc-69729 HRP), 200 µg/ml for WB, IHC/IP and ELISA; or to either phycoerythrin (sc-69729 PE), fluorescein (sc-69729 FITC), Alexa Fluor® 488 (sc-69729 AF488), Alexa Fluor® 546 (sc-69729 AF546), Alexa Fluor® 594 (sc-69729 AF594) or Alexa Fluor® 647 (sc-69729 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-69729 AF680) or Alexa Fluor® 790 (sc-69729 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

HIV-1 Rev (Rev-4) is recommended for detection of Rev of HIV-1 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of HIV-1 Rev: 18 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1. Western Blotting: use m-IgG B+HRP: sc 516102 or m-IgG B+HRP (Cruz Marker): sc 516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG B+FITC: sc-516140 or m-IgG B+PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

**SOURCE**

HIV-1 Rev (Rev-4) is a mouse monoclonal antibody raised against HIV-1 Rev.

**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.