**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 IgGκ 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(P) and ELISA; 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(P) 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.

**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).

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP® (Cruz Marker): sc-516102 or m-IgGκ BP-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-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-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.