**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. p24 is a viral protein encoded by the HIV-1 GAG gene that provides structural elements of the virus along with p6, p7 and p17. Specifically, p24 makes up the viral capsid, p6 and p7 are the components of the nucleocapsid, and p17 provides a protective matrix.

**REFERENCES**


**SOURCE**

HIV-1 p24 (24-4) is a mouse monoclonal antibody raised against HIV-1 p24 Gag.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HIV-1 p24 (24-4) is available conjugated to agarose (sc-69728 AC), 500 µg/mL for WB, (HCIP) and ELISA; to either phycocyanin (sc-69728 PE), fluorescein (sc-69728 FITC), Alexa Fluor® 488 (sc-69728 AF488), Alexa Fluor® 546 (sc-69728 AF546), Alexa Fluor® 594 (sc-69728 AF594) or Alexa Fluor® 647 (sc-69728 AF647), 200 µg/mL for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-69728 AF680) or Alexa Fluor® 790 (sc-69728 AF790), 200 µg/mL, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

HIV-1 p24 (24-4) is recommended for detection of Gag p24 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

Molecular Weight of HIV-1 p24: 24 kDa.

**RESEARCH USE**

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

**STORAGE**

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

**DATA**

![HIV-1 p24 (24-4): sc-69728 Western blot analysis of human recombinant HIV-1 gag p17/p24/p15.](image)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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