SANTA CRUZ BIOTECHNOLOGY, INC.

# HIV-1 p24 (BDI690): sc-57827

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

Human immunodeficiency virus (HIV) is a retrovirus that causes acquired immune deficiency syndrome (AIDS), a condition in humans in which the immune system fails, 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


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## RESEARCH USE

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

## SOURCE

HIV-1 p24 (BDI690) is a mouse monoclonal antibody raised against purified native HIV-1 p24.

## PRODUCT

Each vial contains 100 µg $IgG_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

HIV-1 p24 (BDI690) is recommended for detection of Gag p24 of HIV-1 origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of HIV-1 p24: 24 kDa.

## STORAGE

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

## PROTOCOLS

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

CONJUGATES

See **HIV-1 p24 (24-4): sc-69728** for HIV-1 p24 antibody conjugates, including AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647.