

# HIV-1 gp41 (A00020.01): sc-81011

## 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<sup>+</sup> 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. p17 may transfer viral nucleocapsids from the nuclei to plasma membranes which is the location of viral assembly. HIV-1 gp41 is a glyco-envelope protein that exerts various effects on human T cells, B cells, and monocytes such as inhibition of cell proliferation, modulation of MHC expression and cytokine production.

## REFERENCES

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## SOURCE

HIV-1 gp41 (A00020.01) is a mouse monoclonal antibody raised against recombinant gp41 of HIV-1 origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

HIV-1 gp41 (A00020.01) is recommended for detection of gp41 envelope glycoprotein of HIV-1 origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of HIV-1 gp41 monomer: 40 kDa.

## SELECT PRODUCT CITATIONS

1. Day, C.J., Hardison, R.L., Spillings, B.L., Poole, J., Jurcisek, J.A., Mak, J., Jennings, M.P. and Edwards, J.L. 2022. Complement receptor 3 mediates HIV-1 transcytosis across an intact cervical epithelial cell barrier: new insight into HIV transmission in women. *mBio*. E-published.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.