

Immunodeficiency Virus type 1 (HIV-1) gp120/Glycoprotein 120 ELISA Kit | HIV-1 elisa kit

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CATALOG # AAA258425	REACTIVITY Human Immunodeficiency Virus type 1 (HIV-1)
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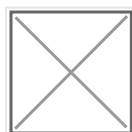
PRODUCT SYNONYMS

Immunodeficiency Virus type 1 (HIV-1) gp120/Glycoprotein 120; Human Immunodeficiency Virus type 1 (HIV-1) gp120/Glycoprotein 120 ELISA Kit; HIV-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human Immunodeficiency Virus type 1 (HIV-1)
Specificity	The kit has been verified by high purity Human Immunodeficiency Virus type 1 (HIV-1) gp120/Glycoprotein 120 recombinant protein.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Recombinant protein
Detection Range	46.88 -3000 pg/ml
Sensitivity	11.67pg/ml
Conjugation	HRP
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for HIV-1 elisa kit	This Human Immunodeficiency Virus type 1 (HIV-1) gp120/Glycoprotein 120 ELISA Kit is an enzyme-linked immunosorbent assay for the quantitative measurement of HIV HIV gp120 protein in Recombinant protein. It contains recombinant HIV HIV gp120, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: The HIV-1 gp120 envelope protein, a glycoprotein that is part of the outer layer of the virus, is an essential component in the multi-tiered viral entry process. It presents itself as viral membrane spikes consisting of 3 molecules of gp120 linked together and anchored to the membrane by gp41 protein. Gp120 is essential for viral infection as it facilitates HIV entry into the host cell and this is its best-known and most researched role in HIV infection. However, it is becoming increasingly evident that gp120 might also be facilitating viral persistence and continuing HIV infection by influencing the T cell immune response to the virus. The surface protein gp120 attaches the virus to the host lymphoid cell by binding to the primary receptor CD4. Gp120 binding to its receptor CD4 and co-receptor, CXCR4 or CCR5 is required for fusion of viral and cellular membranes. Several mechanisms might be involved in this process of which gp120 binding to the CD4 receptor of T cells is the best known and most important interaction as it facilitates viral entry into the CD4+ cells and their depletion, a hallmark of the HIV infection. Gp120 is shed from the viral membrane and accumulates in lymphoid tissues in significant amounts. Despite the overall genetic heterogeneity of the gp120 glycoprotein, the conserved CD4 binding site provides an attractive antiviral target. Interaction between gp120 and ITGA4/ITGB7 would allow the virus to enter GALT early in the infection, infecting and killing most of GALT's resting CD4+ T-cells. This T-cell depletion is believed to be the major insult to the host immune system leading to AIDS.
References	Kadow J, et al. (2006) Small-molecule HIV-1 gp120 inhibitors to prevent HIV-1 entry: an emerging opportunity for drug development. Curr Opin Investig Drugs. 7(8): 721-6. Stevceva L, et al. (2007) Immune responses to HIV Gp120 that facilitate viral escape. Curr HIV Res. 5(1): 47-54. Yoon V, et al. (2010) The GP120 molecule of HIV-1 and its interaction with T cells. Curr Med Chem. 17(8): 741-9.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/immunodeficiency-virus-type-1-hiv-1-gp120-glycoprotein-120/258425>