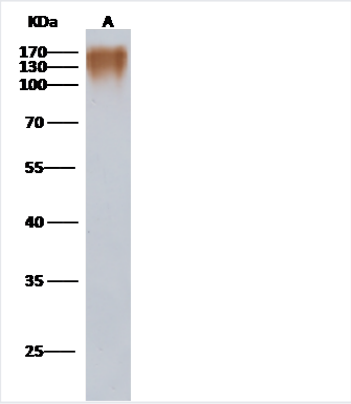
gp120 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HIV-1 (gp120), Polyclonal Antibody
Full Product Name	HIV-1(group P, strain RBF168) gp120 Antibody, Rabbit PAb, Antigen Affinity Purified
Product Gene Name	anti-gp120 antibody
Product Synonym Names	HIV-1(group P, strain RBF168) gp120 Antibody, Rabbit PAb, Antigen Affinity Purified
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	HIV
Form/Format	Liquid. 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	HIV-1(group P, strain RBF168) gp120
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. This antibody is shipped as liquid solution at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Immunogen	Recombinant HIV-1(group P, strain RBF168) gp120 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant HIV-1(group P, strain RBF168) gp120. HIV-1(group P, strain RBF168) gp120 specific IgG was purified by HIV-1(group P, strain RBF168) gp120 affinity chromatography.
Applications Tested/Suitable for anti-gp120 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-gp120 antibody	WB: 1:1000-1:5000 ELISA: 1:5000-1:10,000 Antibody's applications haven't been validated with corresponding virus positive samples.
Related Product Information for anti-gp120 antibody	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.

Product References and Citations for anti-gp120 antibody	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.
Other Notes	Small volumes of anti-gp120 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for gp120 purchase	MBS8119500 is an antibody targeting gp120. Also known as HIV-1(group P, strain RBF168) gp120 Antibody, Rabbit PAb, Antigen Affinity Purified. Reactive in HIV. Host: Rabbit.



Western Blot (WB) of anti-gp120 antibody
Anti-S3-HIV1Pgp120-His rabbit polyclonal antibody at 1:1000 dilution.Sample:S3-HIV1Pgp120-His Recombinant ProteinLane A: 30ngSecondaryHRP Conjugated Goat anti-rabbit IgG (H+L) at 1/1000 dilutionPerformed under reducing conditions.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for gp120. It may not necessarily be applicable to this product.

Protein Family	Histone acetyltransferase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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