

Mouse HIV-1 gp120, Strain IIIB Monoclonal Antibody

Mouse anti-HIV-1 gp120, Strain IIIB (Human Immunodeficiency Virus Type 1) (FITC)

CATALOG # AAA14731	HOST Mouse	APPLICATIONS Dot Blot, Flow Cytometry, Functional Assay, Immunohistochemistry, Immunofluorescence
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PRODUCT SYNONYMS

HIV-1 gp120; Strain IIIB; Monoclonal Antibody; Mouse anti-HIV-1 gp120; Strain IIIB (Human Immunodeficiency Virus Type 1) (FITC); anti-HIV-1 gp120; Strain IIIB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Clone Number	5i20
Specificity	Recognizes native and recombinant HIV-1 gp120. Stains cell surfaces in direct IF assays. Specific for the V3 loop of HIV-1 IIIB gp120/gp160 and shows 10-50% cross-reactivity with other HIV-1 strains.
Purity/Purification	>95% Purified by gel exclusion chromatography.
Form/Format	Supplied as a liquid in 10mM Tris, pH 8.0. No stabilizers or preservatives added. Labeled with fluorescein isothiocyanate (FITC).
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-HIV-1 gp120, Strain IIIB antibody	DB (Dot Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	Recommended Dilutions Direct Immunofluorescence: 1:50 Dot Blot: 1:200 Suitable for use in Dot Blot, FC, Immunohistochemistry and Direct Immunofluorescence. Other applications not tested. Optimal dilutions to be determined by the researcher.
Immunogen	HIV-1 gp120
Note	Product is sensitive to light.
Grade	Highly Purified
F/P Ratio	3-4
Preparation and Storage	Store product at 4°C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20°C. Aliquots are stable at -20°C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

ADDITIONAL INFORMATION

Related Product Information for anti-HIV-1 gp120, Strain IIIB antibody	HIV is a member of the genus Lentivirus, part of the family of Retroviridae, which use reverse transcriptase to convert the viral RNA genome into double stranded DNA. This is then integrated into the cell's DNA, which is followed by latency or active HIV replication. HIV primarily infects CD4+ T lymphocytes, resulting in their dramatic decline. When CD4+ T cell numbers decline below a critical level, cell-mediated immunity is lost, and the body becomes progressively more susceptible to opportunistic infections. If untreated, this can lead to AIDS (Acquired Immunodeficiency Syndrome). Human immunodeficiency virus type 1 (HIV-1) entry into target cells is directed by the envelope (Env) glycoproteins, which are present on the surface of HIV-1 virion or infected cells in the form of trimers consisting of gp120/gp41 complexes. The surface subunit, gp120, initiates the entry process by interacting sequentially with the CD4 receptor and a co-receptor CCR5 or CXCR4, thereby inducing a conformational change that allows the transmembrane (TM) gp41 subunit to mediate fusion between viral and target cell membranes. Cleavage of Env into its gp120 and gp41 components is necessary for activation of its fusogenic activity.
Product Categories/Family for anti-HIV-1 gp120, Strain IIIB antibody	Antibodies; Abs to Infectious Disease HIV

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://www.aaabiotech.com/monoclonal/hiv-1-gp120-strain-iiib-antibody-clone-5i20-dot-blot-flow-cytometry-immunohistochemistry-immunofluorescence-elisa/14731>