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Certificate of Analysis and Data Sheet

MOUSE ANTI HUMAN IMMUNODEFICIENCY VIRUS 1 p24

With HRP-conjugated secondary antibody

Catalog No.
DS-MB-01568

Species:
Virus

Isotype:
Mouse IgG1

Description

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+ 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.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1/20-1/200
Western Blotting	•			1/10-1/50
Immunohistology - frozen	•			1/10-1/50 (Is not suitable for use on formalin-fixed paraffin-embedded sections.)
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining	•			1/10-1/50
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was recombinant protein derived from HIV p24. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein A affinity chromatography.

Specificity

DS-MB-01568 is specific for the HIV1 p24 this forms the conical core of the virus that encapsulates the genomic RNA-nucleocapsid complex.

Reconstitution

Supplied as 100 µg of purified antibody. It is reconstituted with 1.0ml of sterile PBS, pH 7.2. Its final concentration is 0.1 mg/ml. **Please avoid freeze-thaw cycles.**

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Storage

Store at -20°C only. Shipped at 4°C and minimize freezing and thawing when use.

Reference

Barbouche, R.M., Bürgisser, P., Slim, A., Largueche, B. and Dellagi, K. 2003. False-positive HIV-1 p24 antigenemia with unusual pattern of neutralization. Arch. Inst. Pasteur. Tunis 76: 11-12.

Barletta, J.M., Edelman, D.C. and Constantine, N.T. 2004. Lowering the detection limits of HIV-1 viral load using real-time immuno-PCR for HIV-1 p24 antigen. Am. J. Clin. Pathol. 122: 20-27.

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