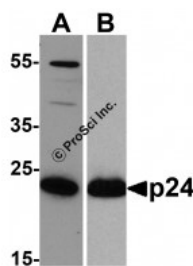


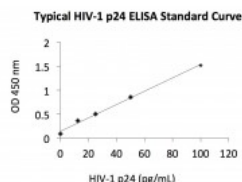


HIV-1 p24 Antibody [7F4]

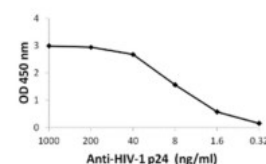
CATALOG NUMBER: PM-6585



Western blot analysis of 20 ng of (A) viral p24 and (B) recombinant p24 with anti-HIV-1 p24 antibody PM-6585 at (A) 0.5 ug/mL and (B) 0.2 ug/mL, respectively.



Sandwich ELISA analysis of recombinant p24 proteins using capture antibody [7F4] and biotin labeled detection antibody [8G9]. (Assay sensitivity = 2.5 pg of recombinant p24 protein).



Titration ELISA of anti-HIV-1 p24 antibody PM-6585 with 100 ng of recombinant HIV-1 p24 protein.

Specifications

SPECIES REACTIVITY:	Virus
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	PM-6585 can be used for detection of p24 by Western blot or ELISA at 0.2 – 0.5ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat No. 95-153 - Recombinant HIV-1 p24
PREDICTED MOLECULAR WEIGHT:	Observed: 24 kDa, 41 kDa, and 55 kDa
SPECIFICITY:	By Western blot, anti-HIV-1 p24 antibody detects a ~24 kDa, a ~41 kDa, and a ~55 kDa protein, corresponding to HIV-1 p24 and to its precursors p41 and p55, respectively, in HIV-1 samples.
IMMUNOGEN:	Mouse monoclonal HIV-1 p24 antibody was raised against a recombinant full-length HIV-1 p24 protein.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	HIV-1 p24 antibody is supplied as protein A purified IgG1.
PHYSICAL STATE:	Liquid
BUFFER:	HIV-1 p24 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	HIV-1 p24 Monoclonal Antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
CLONALITY:	Monoclonal
ISOTYPE:	IgG1
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	HIV-1 p24 Antibody [7F4] :
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ACCESSION NO.:	AAB50258
PROTEIN GI NO.:	327745
OFFICIAL SYMBOL:	GAG
GENE ID:	155030

Background

BACKGROUND:	HIV-1 p24 Monoclonal Antibody: The human immunodeficiency virus type 1 (HIV-1) particle consists of an envelope, a core and the region between the two termed matrix (1). The HIV-1 Gag protein is a late structural protein that contains four proteins: matrix (p17), capsid (p24), nucleocapsid (p7) and the p6 protein (2). The p24 constitutes the major core component of the virus and shows high degree of sequence conservation among HIV isolates. The Gag p24 has been used as an integral part of multicomponent HIV-1 vaccines (3).
REFERENCES:	1) Goto T, Nakai M, and Ikuta K. The life-cycle of human immunodeficiency virus type 1. <i>Micron</i> 1998; 29:123-38.
	2) Freed EO. HIV-1 gag proteins: diverse functions in the virus life cycle. <i>Virology</i> 1998; 251:1-15.
	3) Flynn BJ, Kastenmuller K, Wille-Reece U, et al. Immunization with HIV Gag targeted to dendritic cells followed by recombinant New York vaccinia virus induces robust T-cell immunity in nonhuman primates. <i>Proc. Natl. Acad. Sci. USA</i> 2011; 108:7131–6.

FOR RESEARCH USE ONLY

December 14, 2016