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Datasheet for 200-301-BR6

HIV-1 p24 Antibody [7F4]

Overview

Description:	Anti-HIV-1 p24 (MOUSE) Antibody - 200-301-BR6
Item No.:	200-301-BR6
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Virus
Host Species:	Mouse

Product Details

Background:	The human immunodeficiency virus type 1 (HIV-1) particle consists of an envelope, a core and the region between the two termed matrix. The HIV-1 Gag protein is a late structural protein that contains four proteins: matrix (p17), capsid (p24), nucleocapsid (p7) and the p6 protein. The p24 is the major capsid protein of the virus and has been used in clinical trials as one of the components of the HIV-1 vaccine because of the high degree of sequence conservation between different strains.
Synonyms:	HIV-1 p24 Antibody, Gag polyprotein, Pr55Gag, Matrix protein p17, Capsid protein p24, Spacer peptide 1, Nucleocapsid protein p7, Spacer peptide 2, p6-gag, SP1, SP2, MA, CA, p2, NC
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	[7F4]
Format:	IgG1

Target Details

Gene Name:	gag
Reactivity:	Virus
Immunogen Type:	Recombinant Protein
Immunogen:	Anti- HIV-1 p24 antibody was produced in mice by repeated immunizations with a recombinant full-length HIV-1 p24 protein.

Purity/Specificity:	Anti-HIV-1 p24 Monoclonal Antibody is supplied as protein A purified IgG1.
Relevant Links:	• UniProtKB - P04591 • GeneID - 155030 • NCBI - AAB50258

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-HIV-1 p24 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 56 kDa in Western Blots of specific cell lysates and tissues. 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
WB:	0.2-0.5µg/mL

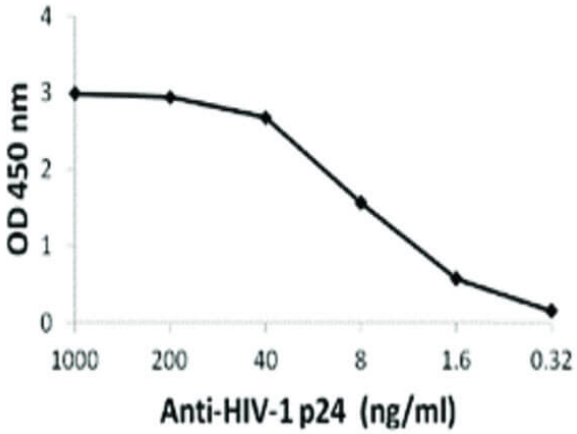
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

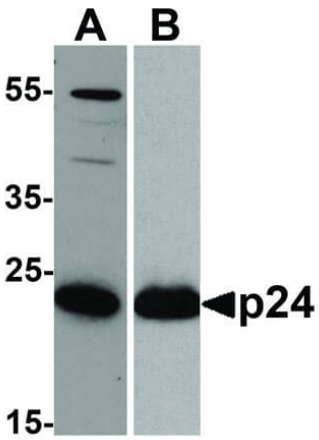
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Antibody can be stored at -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ELISA
ELISA of Anti-HIV-1 p24 Antibody. Antigen: 100ng of recombinant HIV-1 p24 protein. Range: 40-0.32ng/mL.



Western Blot
Western Blot of Mouse anti-HIV-1 p24 antibody. Lane A: viral p24 protein at 0.5 µg/mL. Lane B: recombinant p24 protein at 1 µg/mL. Load: 20 ng. Primary antibody: HIV-1 p24 antibody overnight at 4℃. Secondary antibody: Mouse HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 24, 41, 55 kDa, 24, 41, 55 kDa for HIV-1 p24.

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