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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-306-BR7

HIV-1 p24 Antibody [8G9] Biotin Conjugated

Overview

Description:	Anti-HIV-1 p24 (MOUSE) Monoclonal Antibody Biotin Conjugated - 200-306-BR7
Item No.:	200-306-BR7
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 (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).
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
Conjugate:	Biotin
Clonality:	Monoclonal
Clone ID:	[8G9]
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 was Protein A purified.
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. 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:	0.2-0.5 µg/mL
WB:	0.2-0.5 µg/mL

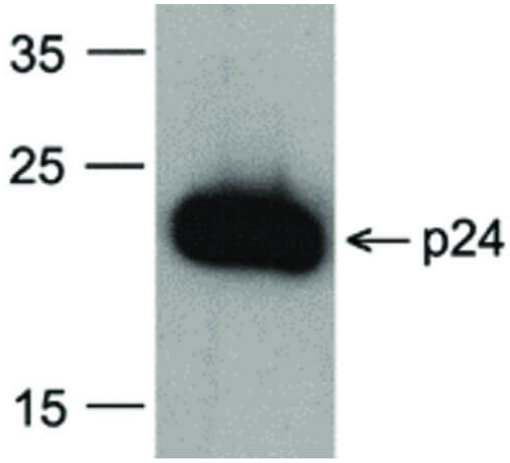
Formulation

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:	1% BSA

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Mouse anti-HIV-1 p24 antibody. Lane A: recombinant HIV-1 p24 protein. Load: 20 ng. Primary antibody: HIV-1 p24 Biotin conjugated antibody at 0.2 µg/mL overnight at 4℃. Block: 5% BLOTTO. Predicted/Observed size: 24, 41, 55 kDa, 24 kDa for HIV-1 p24.

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