

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

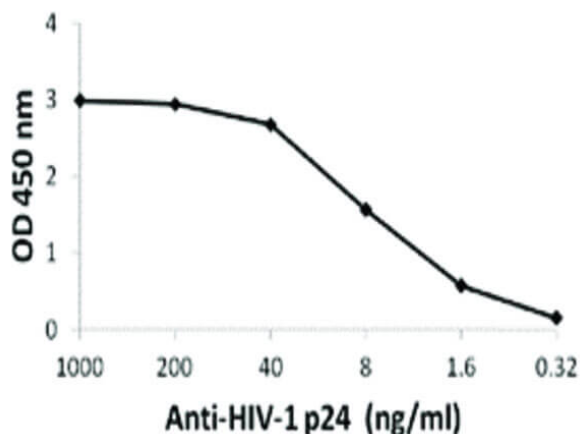
Shipping & Handling

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.

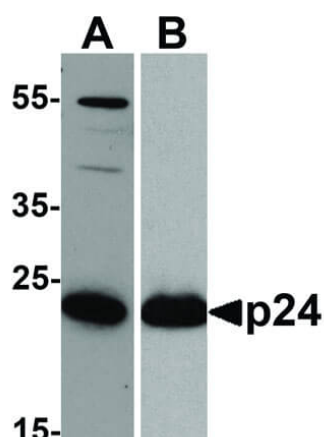
Expiration: Expiration date is one (1) year from date of receipt.

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°C. Secondary antibody: Mouse HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 24, 41, 55 kDa, 24, 41, 55 kDa for HIV-1 p24.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.