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Datasheet for 600-101-BM5

gp120 Antibody

Overview

Description:	Anti-gp120 (GOAT) Antibody - 600-101-BM5
Item No.:	600-101-BM5
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Virus
Host Species:	Goat

Product Details

Background:	Human immunodeficiency virus type 1 (HIV-1) entry into target cells is directed by the envelope (Env) glycoproteins, which are present on the surface of HIV-1 virion or infected cells in the form of trimers consisting of gp120/gp41 complexes. The surface subunit, gp120, initiates the entry process by interacting sequentially with the CD4 receptor and a co-receptor CCR5 or CXCR4, thereby inducing a conformational change that allows the transmembrane (TM) gp41 subunit to mediate fusion between viral and target cell membranes. Cleavage of Env into its gp120 and gp41 components is necessary for activation of its fusogenic activity.
Synonyms:	gp120 Antibody, Envelope glycoprotein gp160
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	env
Reactivity:	Virus
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-gp120 antibody was prepared from whole goat serum produced by repeated immunizations with 15 amino acids from near the internal region of gp120.

Purity/Specificity:	Anti-gp120 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with gp120 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q6BBS3 • GeneID - 155971 • NCBI - AAT67551

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-gp120 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 98 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1 µg/mL

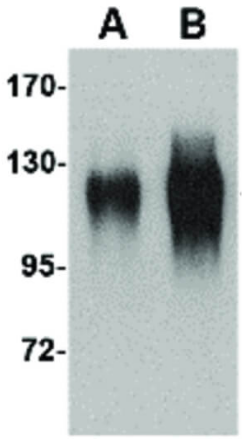
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 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:	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 gp120 antibody. Lane A: 25 ng of gp120 at 1 µg/mL. Lane B: 100 ng of gp120 at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase goat secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 98 kDa, ~120 kDa for gp120.

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.