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Datasheet for 600-101-BM5

# gp120 Antibody

## Overview

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| **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

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| **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

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| **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. |

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| **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<br>• GeneID - 155971<br>• NCBI - AAT67551 |

## Application Details

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| **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

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| **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

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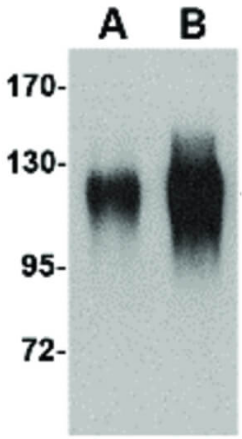
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product 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