



# Anti-HIV type 1 Glycoprotein 120, Glycoprotein 160 polyclonal antibody (DPAB3972)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b>    | Rabbit Polyclonal antibody to HIV-1 GP120/160 Proteins.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Antigen Description</b> | Endoproteolytic processing of human immunodeficiency virus type 1 (HIV1) gp160 membrane glycoprotein precursor into gp120 and gp41 is necessary for formation of infectious HIV particles. The gp120 glycoprotein is used for binding to CD4 receptor and CCR5 co-receptor of T helper 2 (Th2) cells, and is able to induce FcepsilonRI(+) hematopoietic cells to produce IL4, which inactivates the host adaptive immune response. |
| <b>Specificity</b>         | Reacts with HIV-1 (Clade A/B/C) gp120/160 proteins.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Target</b>              | HIV type 1 Glycoprotein 120, Glycoprotein 160                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>           | in vivo expressed HIV-1 gp140 proteins (Clade A/B/C).                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Isotype</b>             | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source/Host</b>         | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species Reactivity</b>  | HIV                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>        | Immunoaffinity chromatography                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Conjugate</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>        | WB                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Size</b>                | 100 µg                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Preservative</b>        | None                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>             | Store at 4 oC; DO NOT FREEZE; Stable for 6 months from the date of shipment. Non-                                                                                                                                                                                                                                                                                                                                                   |

## BACKGROUND

### Introduction

One of the obstacles to treatment of the human immunodeficiency virus is its high genetic variability. HIV can be divided into two major types, HIV type 1 (HIV-1) and HIV type 2 (HIV-2). HIV-1 is related to viruses found in chimpanzees and gorillas living in western Africa, while HIV-2 viruses are related to viruses found in sooty mangabeys. HIV-1 viruses may be further divided into groups. The HIV-1 group M viruses predominate and are responsible for the AIDS pandemic. Group M can be further subdivided into subtypes based on genetic sequence data. Some of the subtypes are known to be more virulent or are resistant to different medications. Likewise, HIV-2 viruses are thought to be less virulent and transmissible than HIV-1 M group viruses, although HIV-2 is known to cause AIDS.

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### Keywords

Group VI; Retroviridae; Lentivirus; Human immunodeficiency virus 1; Human immunodeficiency virus 2; GP120/160 (HIV-1/Pan); HIV-1 GP120/160 Proteins

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