

## Datasheet: AHP2204

<b>Description:</b>	GOAT ANTI HUMAN IMMUNODEFICIENCY VIRUS 1 gp120
<b>Specificity:</b>	HUMAN IMMUNODEFICIENCY VIRUS 1 gp120
<b>Other names:</b>	HIV-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/500 - 1/10,000
Western Blotting	▪			1/500 - 1/10,000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

<b>Target Species</b>	Viral
<b>Product Form</b>	Purified IgG - liquid
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant gp160 comprising the C terminus of gp120 and most of gp41.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q70626</a> <a href="#">Related reagents</a>

RRID AB\_10851206

**Specificity** **Goat anti Human Immunodeficiency Virus 1 gp120 antibody** recognizes the human immunodeficiency virus envelope protein. The viral envelope protein gp160 is cleaved into fragments gp120 and gp41. gp120 is an exterior envelope glycoprotein on the surface of the virus particle that binds to CD4 and chemokine receptors on macrophages and T-lymphocytes. gp41 is non-covalently bound to gp120 and aids the virus in entering the cell.

Goat anti Human Immunodeficiency Virus 1 gp120 antibody reacts with gp120, gp160 and gp41 in western blot assays.

**Purity** >98%

**References**

1. Qi, M. *et al.* (2013) Rab11-FIP1C and Rab14 direct plasma membrane sorting and particle incorporation of the HIV-1 envelope glycoprotein complex. [PLoS Pathog. 9 \(4\): e1003278.](#)
2. Qi, M. *et al.* (2015) A tyrosine-based motif in the HIV-1 envelope glycoprotein tail mediates cell-type- and Rab11-FIP1C-dependent incorporation into virions. [Proc Natl Acad Sci U S A. 112 \(24\): 7575-80.](#)
3. Margolin, E. *et al.* (2019) Production and Immunogenicity of Soluble Plant-Produced HIV-1 Subtype C Envelope gp140 Immunogens. [Front Plant Sci. 10: 1378.](#)
4. Weaver, N. *et al.* (2023) KIF16B Mediates Anterograde Transport and Modulates Lysosomal Degradation of the HIV-1 Envelope Glycoprotein. [J Virol. 97 \(7\): e0025523.](#)

**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

**Guarantee** 12 months from date of despatch

**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/AHP2204>  
10040

**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

**North & South America** Tel: +1 800 265 7376  
Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M428185:240301'

**Printed on 01 Mar 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)