

# Datasheet

## OVERVIEW AND PROPERTIES

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<b>Product Name</b>	PtX™ Human Anti-HIV-1 p24 Recombinant Antibody (HRP)
<b>Catalogue Number</b>	CBT_A0003
<b>Expression Host</b>	<i>Nicotiana benthamiana</i> plants
<b>Clonality</b>	Monoclonal, recombinant
<b>Species and Isotype</b>	Human IgG1
<b>Tag</b>	None
<b>Reporter Protein</b>	Horse Radish Peroxidase (HRP)
<b>Description</b>	This protein is a recombinant antibody targeted to HIV-1 p24 antigen. It was produced in <i>Nicotiana benthamiana</i> plants via <i>Agrobacterium tumefaciens</i> mediated infiltration. It is fused at the genetic level to a Horse Radish Peroxidase (HRP) reporter enzyme.
<b>Verified Applications</b>	Western blot (1:2 000 – 1:20 000) ELISA (1:1 000 – 1:5 000)
<b>Concentration</b>	1.0 mg/ml
<b>Form</b>	Liquid
<b>Colour</b>	Clear to light brown/yellowish
<b>Preparation</b>	Ready to use
<b>Storage</b>	Short-term (up to one week): 2 – 8 °C Long term: Aliquot and store at – 20 °C Store immediately. Aliquot and avoid multiple freeze-thaw cycles.
<b>Storage buffer</b>	Phosphate Buffered Saline (0.1 M), pH 7.4. Preservative: none
<b>Purification notes</b>	This product was purified using Protein A affinity chromatography.
<b>Purity</b>	≥ 90 % as determined by SDS-PAGE.
<b>General notes</b>	If for any reason the product does not perform as specified, please contact our scientific support team for assistance.

### Cape Biologix Technologies (Pty) Ltd.

**Address:** Unit 3, The Powder Mill, 5 Sunrise Circle,  
Ndabeni, Cape Town, South Africa, 7405

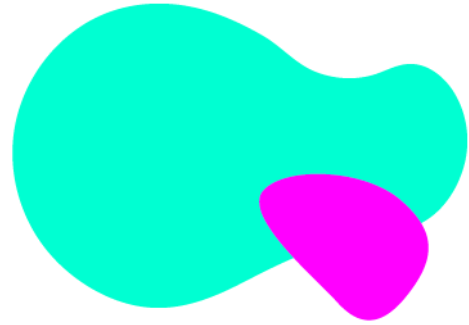
**Directors:** Belinda Shaw

**Company Registration:** 2020/185821/07

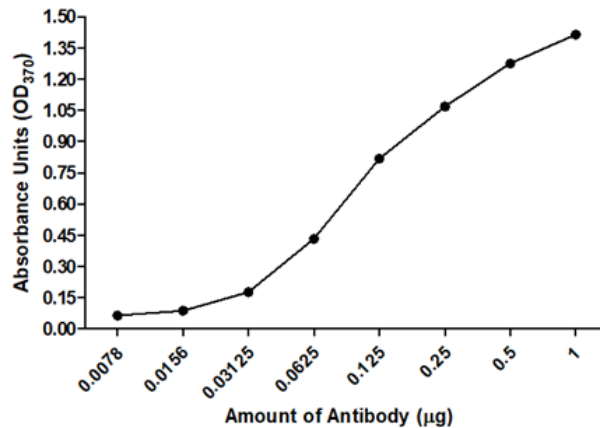
**VAT number:** 4170291449

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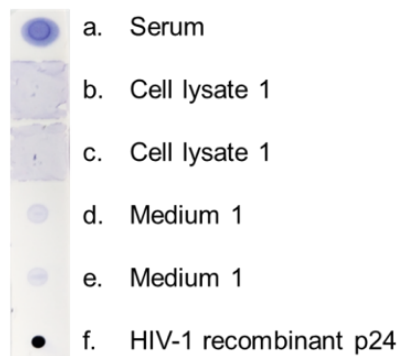
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## IMAGES



**Figure 1:** Antigen-Antibody binding assay (ELISA). The 96-well plate (Greiner Bio) was coated with 100ng of HIV-1 recombinant p24 antigen (Abcam, Ab43037) overnight at 4°C. The coated antigen was detected with primary antibody, PtX™ Human HIV-1 p24 Recombinant Antibody (HRP) at 1:2 000 dilution. Increasing amounts of PtX™ Human HIV-1 p24 Recombinant Antibody (HRP) were plotted against the corresponding absorbance units.



**Figure 2:** Dot blots for detection of HIV-1 p24 from HIV+ samples. a) serum isolated from rabbits immunized with HIV-1 vaccine expressing HIV-1 Gag and Envelope. Detection of HIV-1 Gag p24 in cell lysate b) – c) and d) – e) culture medium of RK13 cells infected with HIV-1 (MVA-EnvM3.2 FL-IP-Gag<sup>M</sup>). f) HIV-1 recombinant p24 antigen was used as a positive control.

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