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## Human Anti-HIV-1 p24 Recombinant Antibody (HRP)

No. :KF-ab0059

- Expression Host:** Nicotiana benthamiana plants
- Clonality:** Monoclonal, recombinant
- Species and Isotype:** Human IgG1
- Description:** This product is a full-length Human IgG1 recombinant antibody specific to HIV-1 p24 antigen. It was produced in Nicotiana benthamiana plants via Agrobacterium tumefaciens-mediated infiltration. It is fused at the genetic level to a Horse Radish Peroxidase (HRP) reporter enzyme.
- Verified Applications:** Western blot, ELISA
- Dilution Range:** Western blot (1: 2 000 - 1: 20 000) ELISA (1: 1 000 - 1: 5 000)
- Tested Species Reactivity :** Human
- Concentration :** 1 mg/ml
- Form :** Liquid
- Storage:** 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.
- Storage Buffer:** 0.1 M Phosphate Buffered Saline, pH 7.7. Preservative: None
- Purification Notes:** This product was purified using Protein A- affinity chromatography.
- Purity:** ≥ 90% as determined by SDS-PAGE
- General Notes:** For Research Use only, unless otherwise indicated.

Image:

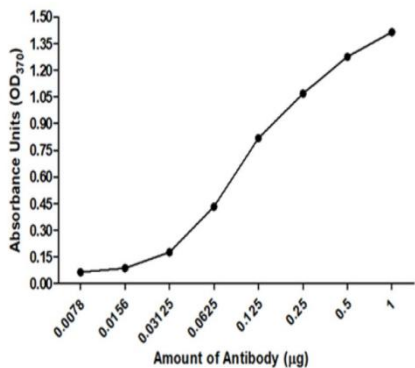


Figure 1: Antigen-Antibody binding assay (ELISA). The 96-well plate (Greiner Bio) was coated with 100 ng of HIV-1 recombinant p24 antigen (Abcam, Ab43037) overnight at 4 °C. The coated antigen was detected with primary antibody, Human HIV-1 p24 (HRP) at a 1: 2 000 dilution. Increasing amounts of Human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

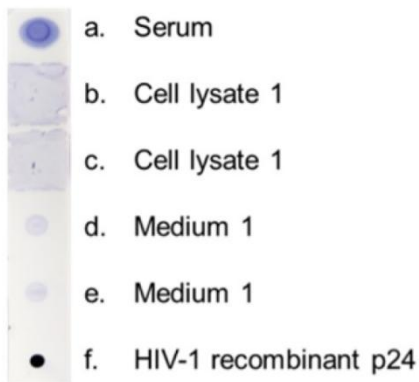


Figure 2: Dot blots for detection of HIV-1 p24 from HIV+ samples. a) serum isolated from rabbits immunized with HIV-1 vaccineexpressing HIV-1 Gag and Envelope. Detection of HIV-1 Gag p24 in cell lysate b) – c) and d) – e) culture medium of RK13 cellsinfected with HIV-1 (MVA-EnvM3.2 FL-IP-GagM). f) HIV-1 recombinant p24 antigen was used as a positive control.