

Anti-HIV-1 Gag p24 antibody, rabbit polyclonal

Product code	65-023
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum
Immunogen	Purified full-size recombinant Gag p24 of HIV-1 subtype B (Ref 2) expressed in <i>E. coli</i> (Ref 2,3)
Isotype	Rabbit IgG
Reactivity	HIV-1 p24 (LAI strain)
Special notes	N/A
Application	1. Western blot (1/1,000~1/5,000) 2. Dot blot (1/3000) 3. Immunoprecipitation (assay dependent) 4. ELISA (assay dependent) Other applications have not been tested
Background	<p>HIV-1 Gag p24 is a capsid protein that constitutes the core of AIDS virus HIV-1 and is produced by digestion of its precursor Gag p55 by HIV-1 protease. This protein is indispensable to the reproduction of AIDS virus and constitutes an essential element for the AIDS virus particle construction (1). As this protein is detectable from the early stage of AIDS virus infection, it is used as a marker for observing the patient's condition after treatment, as it indicates the amount of virus in the blood. Using this antiserum in Western blotting, the bands of 24 kD, 55 kD and 41 kD corresponding respectively to HIV-p24 and its precursors p55 and p41 were observed in the extract of the AIDS virus infected cells (Fig. 1).</p>
Data Link	GenBank: AAA44988.2
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 65-023 Anti-HIV-1 Gag p24 antibody, rabbit polyclonal

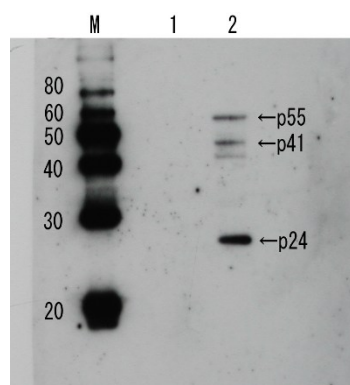


Fig.1 Detection of HIV-1 p24 and precursor proteins p55 and p41 by Western blotting using the anti p24 antibody.

Lane 1: Extract of MT4 cells

Lane2: Extract of MT4 cells infected with HIV-1(LAI strain)

The antiserum was diluted 2,500 fold

The upper bands are precursors of p55 of p24 and the processed intermediate proteins.

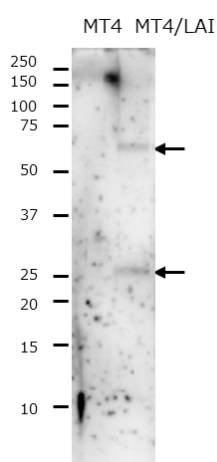


Fig.2 Detection of HIV-1 p24 and precursor proteins p55 and p41 by Western blotting using the anti p24 antibody (65-023).

Left Lane : Extract of MT4 cells

Right Lane: Extract of MT4 cells infected with HIV-1(LAI strain)

The first antibody was used 1µg/ml

References

1. Freed EO "IV-1 gag proteins: diverse functions in the virus life cycle" *Virology* **251**:1-15 (1998)
Review PMID: [9813197](#)
2. Adachi A *et al* "Production of acquired immunodeficiency syndrome-associated retrovirus in human nonhuman cells transfected with an infectious molecular clone" *J Virol* **59**: 284 -291(1986)
PMID: [3016298](#)
3. Tanaka N *et al* "A simple method for overproduction and purification of p24 Gag protein of human immunodeficiency virus type 1" *Microbiol Immunol* **36**:823-831 (1992) PMID: [1474933](#)
4. Saito A *et al* "Overproduction, purification, and diagnostic use of the recombinant HIV-1 Gag proteins, the precursor protein p55 and the processed products p17, p24, and p15" *Microbiol Immunol* **39**:473-483 (1995) PMID: [8569532](#)

Related Product

05-005 HIV-1 Gag p24

65-004 Anti-HIV-1 Gag p24 antibody, rabbit serum

65-021 Anti-HIV-1 Gag p24 antibody, rabbit polyclonal (biotin)