

Anti-HIV-1 Reverse Transcriptase Antibody, rabbit serum

Product code	65-001
Size	100 µl
Storage	Store 4°C for short term For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Concentration	N/A
Buffer	0.09% sodium azide
Purity	Rabbit antiserum
Immunogen	Full-size functional recombinant HIV-1 expressed and purified from E. coli
Isotype	Rabbit IgG
Reactivity	HIV-1 LAI strain
Special notes	N/A
Application	<ol style="list-style-type: none"> 1. Western blotting 2. Dot blotting 3. Immunoprecipitation 4. ELISA.
Background	<p>HIV-1 reverse transcriptase is an RNA-dependent DNA polymerase of HIV-1(AIDS virus), subtype B origin (1). It also has RNaseH activity and is an enzyme indispensable for reproduction of AIDS virus.</p> <p>Because full-size reverse transcriptase was used as immunogen, this antibody reacts any subtype of HIV-1.</p>
Data Link	GenBank: AAA44988.1
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 65-001 anti-HIV-1 Reverse Transcriptase Antibody, rabbit serum

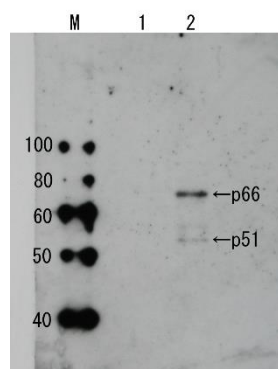


Fig.1 Detection of HIV-1 reverse transcriptase in the extract of HIV-1 infected cells by Western blotting using anti-HIV transcriptase antibody.

Lane 1: Extract of MT4 cells

Lane 2: Extract of MT4 cells infected with HIV-1 (LAI strain)

The antiserum was diluted 2,500 fold before use.

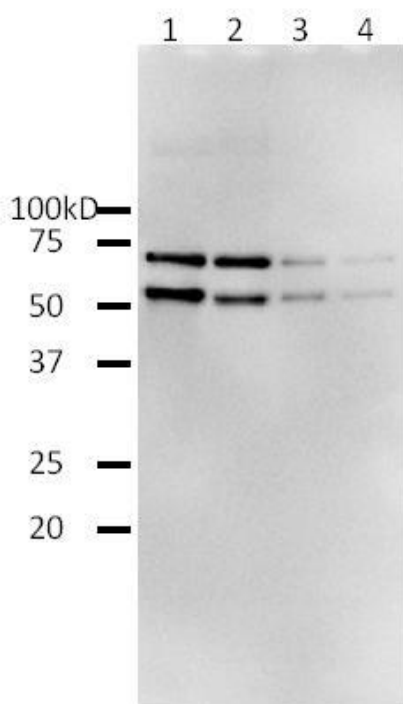


Fig.2. Western blotting of functional recombinant full-length HIV-1 reverse transcriptase (BioAcademia 05-001) by using anti-HIV-1 Reverse Transcriptase antibody.

1; 40 ng / lane

2; 20 ng / lane

3; 4 ng / lane

4; 2 ng /lane

Anti-HIV-1 RT antibody was used at 1/2,000 dilution. As second antibody, goat anti-rabbit IgG antibody conjugated with HRP was used at 1/5,000 dilution. ECL system was used.

References: The HIV-1 strain and immunogen has been described in the following references.

1. Adachi A *et al* "Production of acquired immunodeficiency syndrome-associated retrovirus in human and nonhuman cells transfected with an infectious molecular clone" *J Virol* **59**: 284 - 291(1986) PMID: [3016298](#)
2. Saitoh A *et al* "Overproduction of human immunodeficiency virus type I reverse transcriptase in *Escherichia coli* and purification of the enzyme" *Microbiol Immunol* **34**:509-521 (1990) PMID: [1699113](#)

Related Products

05-001 HIV-1 Reverse Transcriptase, active

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