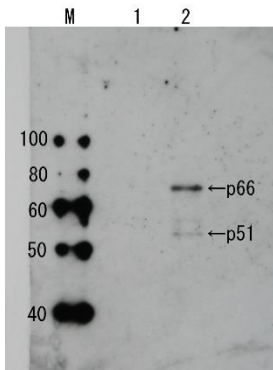


## Anti-HIV-1 Reverse Transcriptase antibody, rabbit polyclonal

<b>Product code</b>	65-022
<b>Size</b>	100 µg
<b>Storage</b>	-20°C
<b>Concentration</b>	1.0 mg/ml
<b>Buffer</b>	PBS- with 50% glycerol
<b>Purity</b>	Purified IgG fraction with protein A from rabbit antiserum
<b>Immunogen</b>	Full-size functional recombinant HIV-1 Reverse Transcriptase expressed and purified from E. coli
<b>Isotype</b>	Rabbit IgG
<b>Reactivity</b>	HIV-1 reverse transcriptase (LAI strain)
<b>Special notes</b>	N/A
<b>Application</b>	<ol style="list-style-type: none"> <li>1. Western blotting</li> <li>2. Dot blotting</li> <li>3. Immunoprecipitation</li> <li>4. ELISA.</li> </ol>
<b>Background</b>	<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</p>
<b>Data Link</b>	GenBank: <a href="#">AAA44988.1</a>
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

**Data Images:** 65-022 Anti-HIV-1 Reverse Transcriptase antibody, rabbit polyclonal

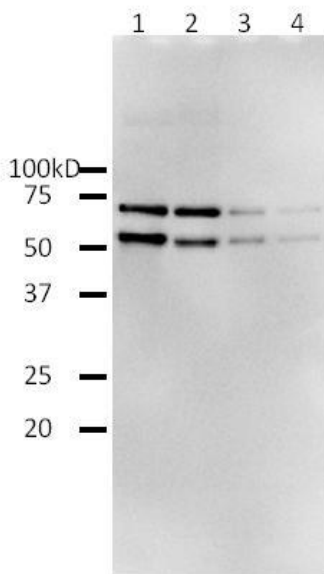


**Fig.1** Detection of HIV-1 reverse transcriptase in the extract of HIV-1 infected cells by Western blotting using anti-HIV transcriptase antibody.

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. (#65-001)

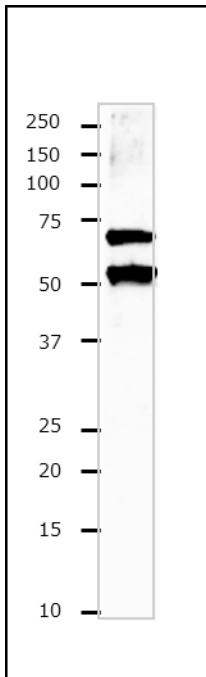
1; 40 ng / lane

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.



**Fig.3. Western blotting of functional recombinant full-length HIV-1 reverse transcriptase (# 05-001) by using anti-HIV-1 Reverse Transcriptase antibody (#65-022).**

5ng of HIV-1 reverse transcriptase (#05-001)

1 $\mu$ g/ml of anti-HIV-1 RT antibody (#65-022)

goat anti-rabbit IgG antibody conjugated with HRP was used at 1/10,000 dilution.

**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 Product

05-005 HIV-1 Reverse transcriptase