

Anti-HIV-1 Reverse Transcriptase Antibody, Guinea Pig serum

65-003

100 µl

Shipping and Storage: Shipped at 4°C or -20°C, and store at -20°C.

Immunogen: Functional full-size recombinant reverse transcriptase of HIV-1 expressed and purified from *E. coli*

Form: 0.09% sodium azide added to the Guinea Pig antiserum

Applications

1. Western blotting
2. Dot blot
3. Immunoprecipitation
4. ELISA

Background: 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 to reproduction of AIDS virus.

Because full-size reverse transcriptase was used as immunogen, this antibody reacts any subtype of HIV-1.

Data Link GenBank: [AAA44988.1](https://www.ncbi.nlm.nih.gov/nuclot/AAA44988.1)

References : Virus is described in Ref 1 and immunogen is described in Ref 2.

1. 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](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/1699113/)

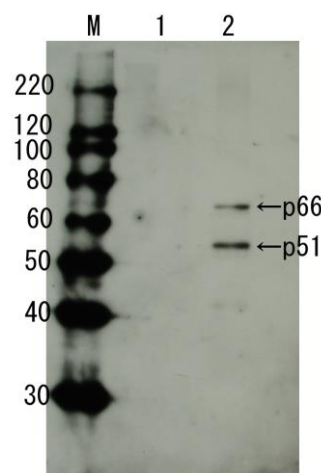


Fig.1 Detection of HIV-1 reverse transcriptase by Western blotting using anti-HIV transcriptase antibody.

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.