

# Anti-HIV-1 Reverse Transcriptase Antibody

Immunized Animal: Guinea Pig

Polyclonal antiserum

Cat. # 65-003 (50 µl)

## Description

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 the reproduction of AIDS virus.

The product is prepared by immunizing guinea pig with HIV-1 reverse transcriptase which was uniquely over-expressed as recombinant protein in *E. coli* by a patent method and highly purified (2).

Using this antiserum in Western blotting, the bands of 66 kD and 51 kD corresponding respectively to the two subunits of HIV-1 reverse transcriptase were observed in the extract of the AIDS virus infected cells (Fig 1).

## Usage

- It can be used in Western blotting or ELISA for HIV-1 reverse transcriptase detection and titration.

## Specification

Form: 0.09% sodium azide added to the antiserum.

Storage: 4°C

## Reference

1. Adachi A, et al., *J. Virol.* 59, 284 (1986)
2. Saitoh A ,et al., *Microbiol. Immunol.* 34:509-521 (1990)

**Fig. 1:** Detection of HIV-1 reverse transcriptase by Western blotting using anti-HIV-1 reverse transcriptase antibody. Lane 1, extract of MT4 cells. Lane 2, extract of MT4 cells infected with HIV-1(LAI strain). The antiserum was diluted 2500 fold before use.

