

## **Anti-HIV-1 p17 antibody**

Immunized Animal: Rabbit

Polyclonal antiserum

Cat. # 65-008 (50 µl); # 65-009 (250 µl)

### **Description**

HIV-1 Gag p17 is the matrix protein of AIDS virus HIV-1 and is produced by the 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 of AIDS virus particle construction (1).

The product is prepared by immunizing rabbit with recombinant p17 protein which was over-expressed in E. coli with a plasmid carrying the Gag p17 coding region of HIV-1 virus, subtype B (2), and highly purified by several steps of chromatography (3,4).

Using this antiserum in Western blot, the bands of 17 kD and 55 kD corresponding respectively to HIV-p17 and to its precursor p55 were observed in the extract of the AIDS virus infected cells (Fig. 1).

### **Applications**

Western Blots

Dot Blots

Immunoprecipitation

ELISA

### **Specification**

Immunogen: Purified full-length recombinant Gag p17 of HIV-1 subtype B expressed in E. coli

Form: 0.09% sodium azide added to the antiserum.

Storage: Ship 4°C or -20°C. Upon receipt, aliquot and store at -20°C

### **References**

1. Freed EO "HIV-1 gag proteins: diverse functions in the virus life cycle" *Virology* 251:1-15 (1998) PMID: 9813197
2. 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
3. Saitoh A et al "A unique monoclonal antibody that recognizes mature p17 of HIV-1 but not its precursor" *Microbiol Immunol* 36:105-111 (1992) PMID: 1584067
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

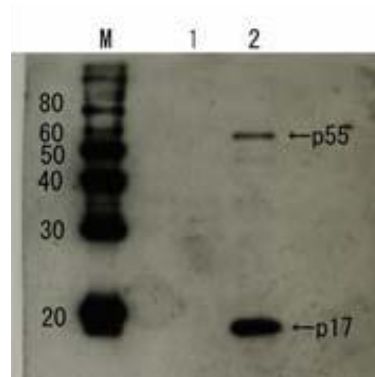
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**Fig. 1:** Detection of HIV-1 p17 and its p55 precursor proteins by Western blotting using the p17 antibody. Lane 1, extract of MT4 cells. Lane 2, extract of MT4 cells infected with HIV-1(LAI strain). The antiserum was diluted 2500 fold before use.