



## Anti-HIV-1 p17 antibody, rabbit serum

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

Using this antiserum in Western blotting, 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

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

Other applications have not been tested

**Immunogen:** Purified full-size recombinant Gag p17 of HIV-1 subtype B (Ref 2) expressed in E. coli (Ref 2,3)

**Form:** Whole antiserum added with 0.09% sodium azide

**Size:** 50ul

**Storage:** Sent at 4°C and upon receipt, aliquot and store at -20°C

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

### References

1. Freed EO "HIV-1 gag proteins: diverse functions in the virus life cycle" *Virology* **251**:1-15 (1998) PMID: [9813197](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/8569532/)

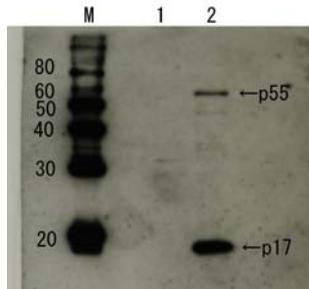


Fig.1 Detection of HIV-1 p17 and its p55 precursor protein by Western blotting using the anti-p17 antibody.

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.

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