

## Anti-HIV-1 p17 antibody, guinea pig serum

65-010      100 ul

HIV-1 Gag p17 is the matrix protein of AIDS virus HIV-1 and is processed by digestion of its precursor Gag p55 by HIV-1 protease. This protein is indispensable to the reproduction of AIDS virus and constitute the essential element of the of AIDS virus particle construction (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)

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

**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/nuclot/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/)

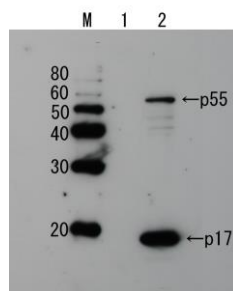


Fig.1 Detection of HIV-1 p17 and its p55 precursor protein by Western blotting using the anti-p17 antibody.

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.