

Anti-HIV-1 p55 antibody, rabbit serum

65-013 100 ul

HIV-1 Gag p55 is a precursor protein of several proteins that form the core structure of AIDS virus, indispensable to its reproduction. P55 is digested by HIV-1 protease, first into intermediate products p41 and p15. Then p41 is digested into matrix protein p17 and capsid protein p24. Protein p15 is further digested into nucleocapsid proteins p7, and to p6 and p1 whose functions are unknown (1).

Applications

1. Western blot (1/2,000~1/5,000)
2. Dot blot (1/3000)
3. Immunoprecipitation (assay dependent)
4. ELISA (assay dependent)

Other applications have not been tested

Immunogen: Purified full-size recombinant Gag p55 of HIV-1 subtype B expressed in E. coli (Ref 2)

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/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. 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/)

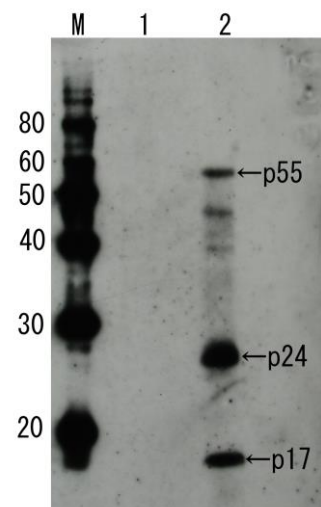


Fig.1 Detection of HIV-1 p55 by Western blotting using the anti-p55 antibody.

Lane1: Extract of MT4 cells

Lane2: Extract of MT4 cells infected with HIV-1 (LAI strain)

This antibody reacts with not only p55 but also the processed products p24 and p17. The other bands are intermediates of processing.. The antiserum was diluted 2,000 fold before use.

Related Product: [05-009 HIV-1 Gag p55 protein](#)