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Inspiration for Life Science

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Catalog No. 65-010

Anti-HIV-1 p17 antibody, guinea pig serum

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)

Form: Whole anttisrum added with 0.09% sodium azide

Size: 50ul

Storage: Sent at 4℃ and upon receipt, aliquot and store at -20℃

Data Link GenBank: AAA44988.1

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

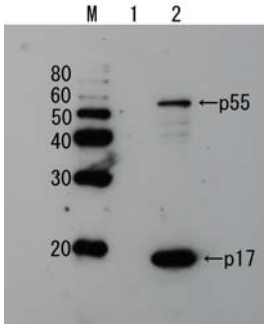

Fig.1 Detection of HIV-1 p17 and its p55 precursor protein by Western blotting using the anti-p17 antibody.
Lane 1: Extract of MT4 cells
Lane 2: Extract of MT4 cells infected with HIV-1(LAI strain)
The antiserum was diluted 2,500 fold before use.