

Anti-HIV-1 p24 antibody

Immunized Animal: Rabbit

Polyclonal antiserum

Cat. # 65-004 (50 µl); # 65-005 (250 µl)

Description

HIV-1 Gag p24 is a capsid protein that constitutes the core 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 AIDS virus particle construction (1). As this protein is detectable from the early stage of AIDS virus infection, it is used as a marker for observation of the development in the patient's condition after treatment, as it indicated the amount of virus in the blood.

The product is prepared by immunizing rabbit with recombinant p24 protein which was over-expressed in *E. coli* with a plasmid carrying the Gag p24 coding region of HIV-1 virus, subtype B (2), and highly purified by several steps of chromatography (3, 4).

Using this antiserum in a Western blot, the bands of 24 kD, 55 kD and 41 kD correspond respectively to HIV-p24 and to its precursors p55 and p41 were observed in the extract of the AIDS virus infected cells (Fig. 1).

Applications

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

Other applications have not been tested.

Specification

Immunogen: Purified full-size recombinant Gag p24 of HIV-1 subtype B (Ref 2) expressed in *E. coli* (Ref 2,3)

Form: antiserum with 0.09% sodium azide

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

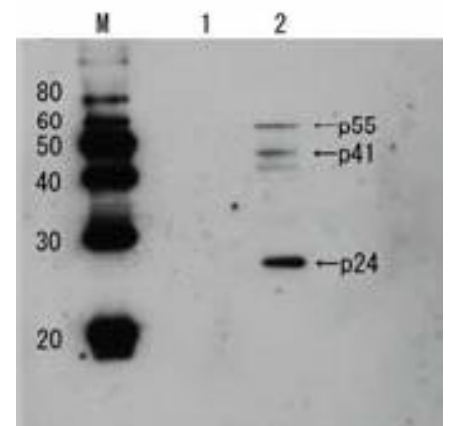
Data Link [GenBank: AAA44988.2](https://www.ncbi.nlm.nih.gov/GenBank/AAA44988.2)

References

1. Freed EO, *Virology* 251:1-15 (1998) Review
2. Adachi A, et al., *J. Virol.* 59, 284 (1986)
3. Tanaka N, et al., *Microbiol. Immunol.* 36:823-831 (1992)
4. Saito A, et al., *Microbiol. Immunol.* 39:473-483 (1995)

Fig. 1: Detection of HIV-1 p24 and precursor proteins p55 and p41

by Western blot using the p24 antibody. Lane 1, extract of MT4 cells. Lane 2, extract of MT4 cells infected with HIV-1(LAI strain). Upper bands are precursors of p55 and p41 and processed intermediate proteins. The antiserum was diluted 2,500 fold before use.



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