

Anti-HIV-1 Gag p17 antibody, rabbit polyclonal

Product code	65-026
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum
Immunogen	Purified full-size recombinant Gag p17 of HIV-1 subtype B (Ref 2) expressed in <i>E. coli</i> (Ref 2,3)
Isotype	N/A
Reactivity	HIV-1
Validation	N/A
Application	1. Western blot (1-10µg/ml) 2. Dot blot 3. Immunoprecipitation 4. ELISA
Background	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).
Data Link	GenBank: AAA44988.1
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 65-026 Anti-HIV-1 Gag p17 antibody, rabbit polyclonal

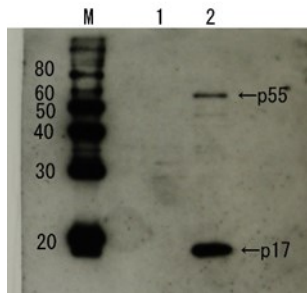


Fig.1 Detection of HIV-1 Gag p17 and its p55 precursor protein by Western blotting using the anti-HIV-1 Gag p17 antibody, rabbit serum (65-008).

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.

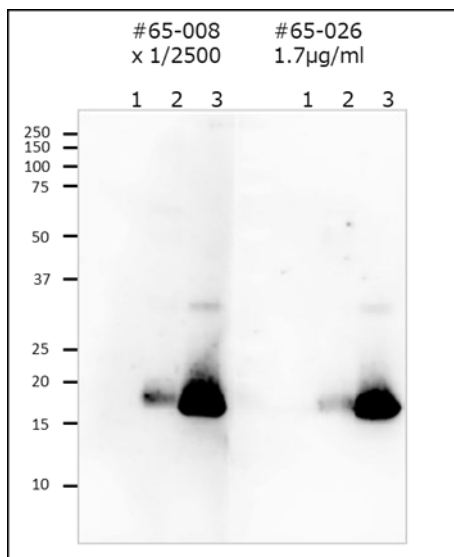


Fig.2 Detection of HIV-1 Gag p17 protein by Western blotting using the anti-HIV-1 Gag p17 antibody (65-008, 65-026).

Lane 1: Extract of MT4 cells

Lane 2: Extract of MT4 cells infected with HIV-1(LAI strain)

Lane 3: 50ng of recombinant HIV-1 Gag p17 (05-003)

Detection with purified antibody (65-026)(1.7µg/ml) or the antiserum (65-008) (2500-fold dilution).

Related product:

65-008 Anti-HIV-1 Gag p17 antibody, rabbit serum

05-003, 05-004 HIV-1 Gag p17

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](#)