

Anti-HIV-1 Gag p17 antibody, rabbit serum

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| Product code | 65-008 |
| Size | 100 µl |
| Storage | Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing thawing. |
| Concentration | N/A |
| Buffer | 0.09% sodium azide |
| Purity | 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 | Rabbit IgG |
| Reactivity | HIV-1 |
| Special notes | N/A |
| Application | <ol style="list-style-type: none"> 1. Western blot (x1/2500) 2. Dot blot 3. Immunoprecipitation 4. ELISA |
| Background | <p>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).</p> <p>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).</p> |
| 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: 65-008 Anti-HIV-1 Gag p17 antibody, rabbit serum

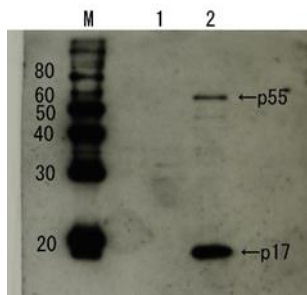


Fig.1 Detection of HIV-1 Gag p17 and its p55 precursor protein by Western blotting using the anti-HIV-1 Gag p17 antibody (65-008).

Lane 1: Extract of MT4 cells

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

The antiserum was diluted 2500-fold before use.

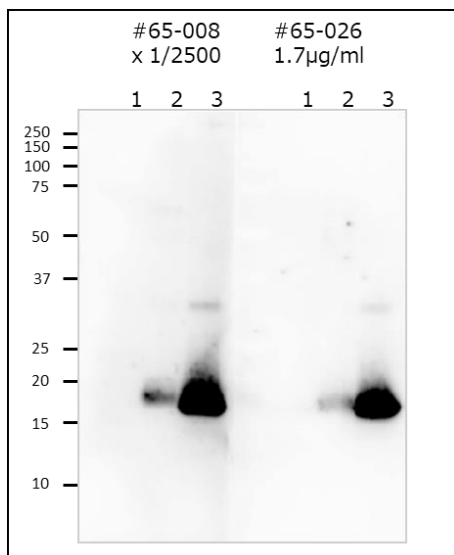


Fig.2 Western blotting with the anti-HIV-1 Gag p17 antibody (65-008, 65-026).

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:

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

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](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](#)
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](#)