Anti-HIV-1 Nef antibody, guinea pig serum

65-017　100 µl

Shipping and Storage: Shipped at 4℃ or -20℃, and store at -20℃.

Immunogen: Purified full-size recombinant Nef of HIV-1 group M, subtype B expressed in *E. coli*

Form: Whole antiserum added with0.09% sodium azide

Applications

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

Background: HIV-1 Nef (23.3 kDa) is one of the accessory proteins synthesized in the early stage of AIDS virus reproduction and is abundantly found in infected cells. The name derives from its negative factor thought at the beginning but presently it is remarked as the protein which bears a most distinctive biological characteristic of AIDS virus (1). The protein interacts directly with the signal transduction protein of the host T cell and works effectively on AIDS infection or on long term survival of the infected cells or induces apoptosis of non-infected cells (2). It is also involved in the endocytosis and degradation of cell surface receptor proteins such as CD4 and MH4 which are important for AIDS virus infection.

Data Link: ProtKB: P03406 (NEF_HV1BR) GenBank: AAA44988.1

References

1. Arora VK *et al* "Nef: agent of cell subversion" *Microbes Infect* **4**: 189-199 (2002) Review PMID: 11880052
2. Fackler OT and Baur AS "Live and let die: Nef functions beyond HIV replication" *Immunity* **16**:493-497 (2002) Review PMID: 11970873

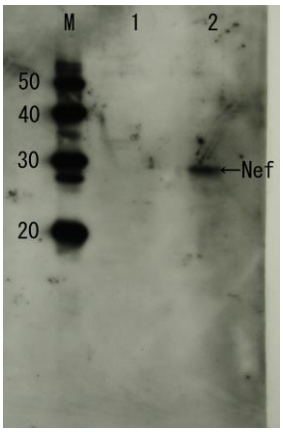

Fig.1 Detection of HIV-1 Nef by Western blotting
Lane1: Extract of MT4 cells
Lane2: Extract of MT4 cells infected with HIV-1 (LAI strain)
The antiserum was diluted 1,000 fold before use.
Nef protein band is identified at 27 kDa position

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