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Datasheet for ABIN7233213

HIV1RT Protein

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Overview

Quantity:	200 U
Target:	HIV1RT
Origin:	Human Immunodeficiency Virus (HIV)
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Dot Blot (DB), Functional Studies (Func), SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Characteristics:	Activity: 5,000 units/mL
Purity:	> 90 % by SDS-PAGE (CBB staining)

Target Details

Target:	HIV1RT
Alternative Name:	HIV-1 Reverse Transcriptase (HIV1RT Products)
Target Type:	Viral Protein
Background:	HIV-1 reverse transcriptase is an RNA-dependent DNA polymerase derived from HIV-1 (AIDS virus), subtype B origin. It also has RNaseH activity and is an enzyme indispensable for reproduction of AIDS virus. This protein is uniquely over-expressed as a recombinant protein in E. coli by a patented method and highly purified. It is composed of two subunits whose molecular weights are 66 kD and 51 kD, same as the those of the enzyme purified from AIDS

Target Details

virus particles.

Application Details

Application Notes:

- 1) It is extremely effective for screening new specific inhibitors for HIV virus as a drug for treating AIDS.
- 2) Generally, Gag and Env proteins are employed as antigens for detecting anti-HIV-1 antibody. However, by using this enzyme in combination as an antigen, the detection will be more sensitive.
- 3) Reverse transcriptases are used in the first step of RT-PCR reaction for converting RNA to DNA. The HIV-1 reverse transcriptase can also be applied for RT-PCR method.
- 4) Standards for SDS-PAGE

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 mg/mL

Buffer: 50 % glycerol, 40 mM Tris-HCl (pH 8.3), 50 mM NaCl, 5 mM MgCl₂, 0.1 % Triton X-100, 1 mM DTT

Preservative: Dithiothreitol (DTT)

Precaution of Use: This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

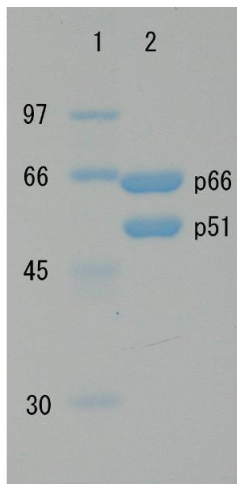
Publications

Product cited in: Saitoh, Iwasaki, Nakata, Adachi, Shinagawa: "Overproduction of human immunodeficiency virus type I reverse transcriptase in Escherichia coli and purification of the enzyme." in: **Microbiology and immunology**, Vol. 34, Issue 6, pp. 509-21, (1990) ([PubMed](#)).

Adachi, Gendelman, Koenig, Folks, Willey, Rabson, Martin: "Production of acquired immunodeficiency syndrome-associated retrovirus in human and nonhuman cells transfected with an infectious molecular clone." in: **Journal of virology**, Vol. 59, Issue 2, pp. 284-91, (1986) ([PubMed](#)).

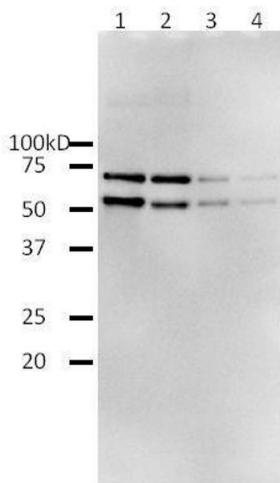
Holtermüller, Bohlen, Castro, Weis: "[Considerations on antacid therapy]." in: **Medizinische Klinik**, Vol. 72, Issue 30, pp. 1229-41, (1977) ([PubMed](#)).

Images



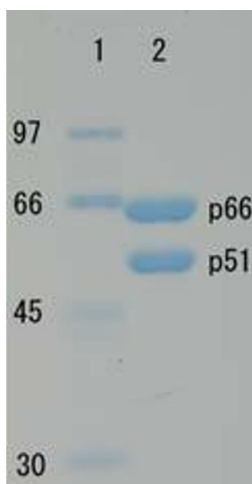
SDS-PAGE

Image 1.



Western Blotting

Image 2.



SDS-PAGE

Image 3.

Images

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7233213.