

Recombinant HIV gag Antigen, His tagged, Biotinylated

Cat. No. gag-023H Lot. No. (See product label)

SPECIFICATION

Product Overview	The gag gene for the core antigen p24 from HIV strain IIIB has been expressed as a recombinant antigen fused to a his-tag in its N-terminus and monobiotinylated in vivo.
Species	HIV
Source	E.coli
Description	The p24 protein (also known as CA, or core antigen), is the capsid protein of the human immunodeficiency virus. This is the most abundant viral protein, since each virus contains about 1,500 to 3,000 p24 molecules. This antigen is used for the early diagnosis of HIV infection. Levels of p24 increases significantly approximately one to three weeks after infection. It is during this time frame, before HIV antibody are produced, when the p24 test is useful in helping to diagnose infection. At the early stage of sero-conversion, antibodies against p24 antigen are the first to appear.
Tag	N-His
Conjugation/Label	Biotin
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 35-45 kDa, while relative molecular mass calculated from amino acid sequence is 40,217.89 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis

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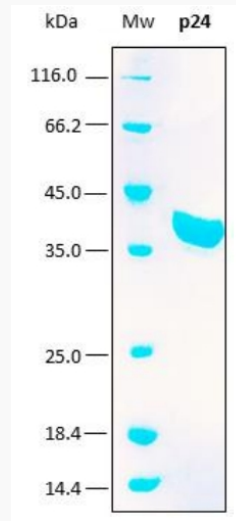
Applications	WB, DB, CE, NP, PO
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM phosphate buffer pH 8, 0.15 mM NaCl and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.29 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	<ol style="list-style-type: none">1. Sundqvist VA, Albert J, Ohlsson E, Hinkula J, Fenyö EM, Wahren B. Human immunodeficiency virus type 1 p24 production and antigenic variation in tissue culture of isolates with various growth characteristics. 1989, J Med Virol, 29(3):170-5.2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.
Conjugation	Biotin

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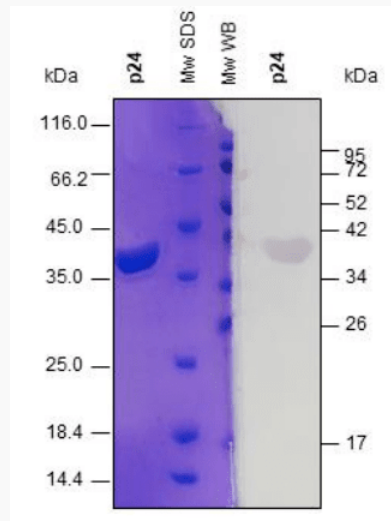
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Purity



SDS-PAGE analysis (15%) of 3 μ L of recombinant p24. Purity is >98% as determined by gel electrophoresis.

WB



Western blot analysis to detect streptavidin /biotin reaction. The incubation was performed with HRP conjugated streptavidin (1:2500).

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