

HIV-1 p24 Antibody

Catalog # ASC11649

Product Information

Application	WB, E
Primary Accession	P04591
Other Accession	AAB50258 , 327745
Reactivity	Virus
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	55930
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	P24 antibody can be used for detection of p24 by Western blot at 0.5 - 1 μ g/mL.

Additional Information

Gene ID	155030
Other Names	Gag polyprotein, Pr55Gag, Matrix protein p17, MA, Capsid protein p24, CA, Spacer peptide p2, Nucleocapsid protein p7, NC, Spacer peptide p1, p6-gag, gag
Target/Specificity	GAG; P24 antibody detects a 24 kDa recombinant protein.
Reconstitution & Storage	HIV-1 p24 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	HIV-1 p24 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	gag
Function	[Gag polyprotein]: Mediates, with Gag-Pol polyprotein, the essential events in virion assembly, including binding the plasma membrane, making the protein-protein interactions necessary to create spherical particles, recruiting the viral Env proteins, and packaging the genomic RNA via direct interactions with the RNA packaging sequence (Psi).
Cellular Location	[Gag polyprotein]: Host cell membrane; Lipid- anchor. Host endosome, host multivesicular body {ECO:0000250 UniProtKB:P12493}. Note=These locations are probably linked to virus assembly sites. The main location is the cell membrane, but under some circumstances, late endosomal compartments can serve as productive sites for virion assembly.

Background

HIV-1 p24 Antibody: The human immunodeficiency virus type 1 (HIV-1) particle consists of an envelope, a core and the region between the two termed matrix. The HIV-1 Gag protein is a late structural protein that contains four proteins: matrix (p17), capsid (p24), nucleocapsid (p7) and the p6 protein. The p24 is the major capsid protein of the virus and has been used in clinical trials as one of the components of the HIV-1 vaccine because of the high degree of sequence conservation between different strains.

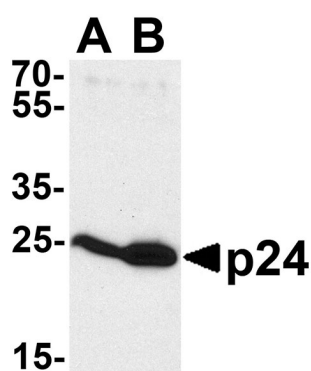
References

Goto T, Nakai M, and Ikuta K. The life-cycle of human immunodeficiency virus type 1. *Micron* 1998; 29:123-38.

Freed EO. HIV-1 gag proteins: diverse functions in the virus life cycle. *Virology* 1998; 251:1-15.

Lindenburg CE, Stolte I, Langendam MW, et al. Long-term follow-up : no effect of therapeutic vaccination with HIV-1 p17/p24:Ty virus-like particles on HIV-1 disease progression. *Vaccine* 2002 ; 20 :2343-7.

Images



Western blot analysis of p24 using p24 antibody at 0.5 µg/mL to detect (A) 2 ng and (B) 10 ng of recombinant HIV-1 p24.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.