

Product datasheet for **AM33314PU-T**

gag-pol Gag Capsid protein p24 Mouse Monoclonal Antibody [Clone ID: HIV1-24/661]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HIV1-24/661
Applications:	IF, IHC
Recommended Dilution:	ELISA: Use BSA free Antibody for Coating. Immunofluorescence: 0.5-1 µg/ml. Immunocytochemistry on Acetone or Paraformaldehyde Fixed Sections: 0.5-1.0 µg/ml for 30 minutes at RT. Positive Control: HIV-1 infected cells or tissues.
Reactivity:	Human Immunodeficiency Virus 1
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant HIV-1 Gag p24 protein.
Specificity:	Recognizes Human Immunodeficiency Virus Type-1 p24(HIV1-p24). Cellular Localization: Membrane.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	24 kDa (mature); 55 kDa & 41 kDa (precursors)
Database Link:	P04585



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Background:

Human Immunodeficiency Virus (HIV) is a retrovirus that causes acquired immune deficiency syndrome (AIDS), a condition in humans in which the immune system begins to fail, leading to life-threatening opportunistic infections. HIV mainly infects vital cells in the human immune system such as helper T cells (specifically CD4+ T cells), macrophages and dendritic cells. Two species of HIV infect humans: HIV-1 and HIV-2, with HIV-1 being the more virulent strain. The gag gene of human immunodeficiency virus 1 (HIV-1) encodes a precursor protein known as Pr55Gag. The viral protease PR cleaves this precursor to generate p17, p24, p7, and p6 proteins, which are required for virus particle assembly. HIV-1 Gag p24 is a capsid protein that constitutes the core of AIDS virus HIV-1. p6 and p7 are the components of the nucleocapsid, and p17 provides a protective matrix. HIV-1 Gag p24 is indispensable to the reproduction of AIDS virus and constitutes an essential element for the AIDS virus particle construction. As this protein is detectable from the early stage of AIDS virus infection, its measurement is commonly used as an indicator of HIV-1 infection and viral load.

Synonyms:

HIV-I, HIV1, Human immunodeficiency virus type 1