

Product Datasheet

HIV Type-1 p24 Antibody (orb2638066)

Description

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.

Species/Host

Mouse

Reactivity

Human

Conjugation

Unconjugated

Tested Applications

ELISA, ICC, IF

Immunogen

Recombinant HIV-1 Gag p24 protein was used as the immunogen for this antibody.

Preservatives

0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Note

For research use only

Biorbyt Ltd.

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Application notes	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the HIV Type-1 p24 antibody to be titrated up or down for optimal performance.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	HIV1-24/661
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Hazard Information	This HIV type-1 p24 antibody is available for research use only.
Entrez	155348
Dilution Range	ELISA (order BSA/sodium azide-free format for coating),Immunocytochemistry (Acetone- or paraformaldehyde-fixed): 0.5-1ug/ml for 30 min,Immunofluorescence: 0.5-1ug/ml
Expiration Date	12 months from date of receipt.

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