

## Product datasheet for **AM09213HR-N**

### HIV-1 Gag Capsid protein p24 Mouse Monoclonal Antibody [Clone ID: 473]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	473
Applications:	ELISA, WB
Recommended Dilution:	<b>ELISA:</b> In combination with anti-HIV-1 p24 capture antibody mAb Clone 340 (Cat.-No AM09215PU-N), this HRP conjugated antibody can be used as a tracer antibody for HIV-1 p24 detection in sandwich ELISA. <b>Western Blot:</b> 0.1 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant HIV-1 P24 (core protein)
Specificity:	This monoclonal antibody reacts with HIV-1 P24 (core protein). No cross activity with HIV-1 GP41 and HIV-2 GP36.
Formulation:	0.01M PBS, pH 7.0±0.1 in 50% Glycerol Label: HRP State: Liquid purified IgG fraction Label: Horseradish Peroxidase
Purification:	Affinity Chromatography on Protein G
Conjugation:	HRP
Storage:	Upon receipt, store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Background:**

HIV1 performs highly complex orchestrated tasks during the assembly, budding, maturation and infection stages of the viral replication cycle. During viral assembly, the proteins form membrane associations and self-associations that ultimately result in budding of an immature virion from the infected cell. Gag precursors also function during viral assembly to selectively bind and package two plus strands of genomic RNA.

Capsid protein p24 probably forms the conical core of the virus that encapsulates the genomic RNA-nucleocapsid complex. P24 is expressed immediately after HIV infection and is detectable before host HIV antibody can be detected. Hence, HIV p24 is currently the target for early diagnosis of HIV acute infection.

**Synonyms:**

Human immunodeficiency virus type 1, HIV-1 P24, Capsid protein p24