

AibGenesis™ Mouse Anti-WHV WhBvgp4 Monoclonal Antibody

Cat. No.: VRS-0124-YT640

This product is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Overview

Target	WhBvgp4
Specificity	WHV
Clone	31157YF
Host Species	Mouse
Antibody Isotype	IgG
Species Reactivity	Woodchuck hepatitis virus

Product Properties

Immunogen	Synthetic peptide sequence
Purity	>95%
Purification	Protein A or G affinity chromatography
Concentration	Lot specific

Packaging, Storage & Formulations

Form	Liquid, please specify if lyophilized powder is required.
Formulation	PBS (pH 7.4) without any preservative, please specify if any additional requirements.
Preservative	Preservative-free, please specify if any additional requirements.
Storage	Store at 4°C for short term. Store at -497°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics.

Applications

Application	WB; ELISA; IHC-P; FC; ICC; IF; IP
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Application Notes	The optimal concentrations/dilutions should be determined by the end user.
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Other Product Details

Type	Primary Antibody
Clonality	Monoclonal
ProAb	Made to order

Virus Details

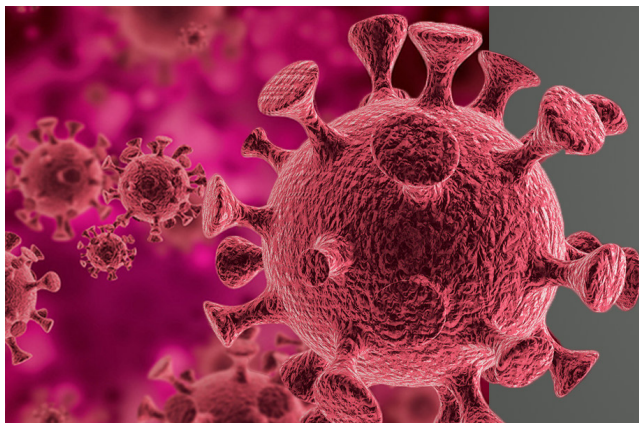
Virus Classification	Double-stranded DNA reverse transcribing viurs
Virus Family	<i>Hepadnaviridae</i>
Virus Genus	<i>Orthohepadnavirus</i>
Species	<i>Woodchuck hepatitis virus</i>
Accession number	M187 52
RefSeq number	N C_004107
Virus Abbrev	WHV
Virus Name	Woodchuck hepatitis virus
Virus Alternatives Names	Woodchuck hepatitis virus; WHV; Woodchuck hepatitis virus
Genome Composition	dsDNA-RT

Target

Introduction	Self assembles to form an icosahedral capsid. Most capsid appear to be large particles with a icosahedral symmetry of T=4 and consist of 240 copies of capsid protein, though a fraction forms smaller T=3 particles consisting of 180 capsid proteins. Entering capsid are transported along microtubules to the nucleus. Phosphorylation of the capsid is thought to induce exposure of nuclear localization signal in the C-terminal portion of the capsid protein that allows binding to the nuclear pore complex via the importin (karyopherin-) alpha and beta. Capsids are imported in intact form through the nuclear pore into the nuclear basket, where it probably binds NUP153. Only capsids that contain the mature viral genome can release the viral DNA and capsid protein into the nucleoplasm. Immature capsids get stucked in the basket. Capsids encapsulate the pre-genomic RNA and the P protein. Pre-genomic RNA is reverse transcribed into DNA while the capsid is still in the cytoplasm. The capsid can then either be directed to the nucleus, providing more genome for transcription, or bud through the endoplasmic reticulum to provide new virions.
Target Alternative Names	WhBvgp4, Woodchuck hepatitis virus, WHV, WhBvgp4

Gene ID [2546420](#)

UniProt ID [Q0GBW8](#)



AibGenesis™

is an advanced AI-driven platform designed to create novel antibody sequences with unprecedented speed and precision. By integrating deep learning, structure prediction, and comprehensive immunological datasets, **AibGenesis™** intelligently designs antibodies optimized for affinity, stability, and developability. The platform generates antibody products that support basic scientific research, drug development, and diagnostic applications.