

AibGenesis™ ViroAb™ Mouse Anti-Hepatitis C Virus Core 1b Monoclonal Antibody (XX0265)

Cat. No.: VRS-0224-YT63

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

Product Overview

Target	C
Target Specific Region	Core 1b
Specificity	Detects hepatitis C virus (HCV) core protein from transfected human and primate cell lines
Clone	XX0265
Host Species	Mouse
Antibody Isotype	IgG1
Species Reactivity	Hepatitis C virus
Virus Subtype	Hepatitis C virus

Product Properties

Immunogen	Recombinant full length protein (GST-tag) corresponding to Hepatitis C Virus Core 1b
Purification	Protein A affinity chromatography
Concentration	1.0 mg/mL (lot specific)

Packaging, Storage & Formulations

Form	Liquid
Formulation	PBS, 0.05% Sodium Azide
Preservative	0.05% Sodium Azide
Storage	Store at 4°C for short term. Store at -20°C or -80°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics.

Applications

Application	IP; FC; ICC; IF; IHC-P; ELISA; WB
Application Notes	FC: 1/100. The optimal working dilutions should be determined by the end user.

Other Product Details

Type	Primary Antibody
Clonality	Monoclonal
Related Disease	Hepatitis C

Virus Details

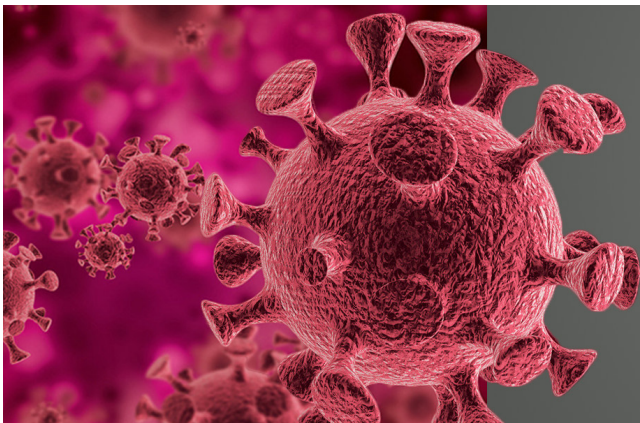
Virus Classification	Positive-sense single-stranded RNA Virus
Virus Family	<i>Flaviviridae</i>
Virus Genus	<i>Hepacivirus</i>
Species	<i>Hepacivirus hominis</i>
Virus Abbrev	HCV
Virus Name	Hepatitis C virus
Virus Alternatives Names	Hepatitis virus; Hepatitis; Hepatitis C Virus; HCV
Genome Composition	ssRNA(+)

Target

Introduction

HCV (Hepatitis C Virus) viral core protein forms the internal viral coat that encapsidates the genomic RNA and is enveloped in a host cell-derived lipid membrane. The hepatitis C virus (HCV) core protein represents the first 177 amino acids of the viral precursor polyprotein and is cotranslationally inserted into the membrane of the endoplasmic reticulum. The N terminus of the core protein is involved in transcriptional repression. There are over 20 different subtypes of Hepatitis C Virus; HCV type 1b is mostly found in Europe and Asia. The prevalence of HCV type 1b infection has recently decreased, although it still accounts for most HCV-related cirrhosis and hepatocellular carcinoma. High HCV viremia levels and HCV genotype type 1b are independent predictors for poor response to interferon-alpha therapy. HCV core protein is among the most conserved proteins in HCV and is known to induce sensitization of cytotoxic T lymphocytes (CTL). Therefore, it is a prime candidate for a component of a potential HCV vaccine.

Target Alternative Names	Core 1b
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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.