

AibGenesis™ ViroAb™ Mouse Anti-Hepatitis C Virus NS4 Monoclonal Antibody (XX0255)

Cat. No.: VRS-0224-YT59

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

Product Overview

Target	NS4
Specificity	Hepatitis C NS4 antigen
Clone	XX0255
Host Species	Mouse
Antibody Isotype	IgG1
Species Reactivity	Hepatitis C virus
Virus Subtype	Hepatitis C virus

Product Properties

Purification	Affinity chromatography purified
Concentration	1.0 mg/mL (lot specific)

Packaging, Storage & Formulations

Formulation	PBS, 0.09% Sodium Azide
Preservative	0.09% Sodium Azide
Storage	Store at 4°C for short term. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics.

Applications

Application	ELISA; WB
Application Notes	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

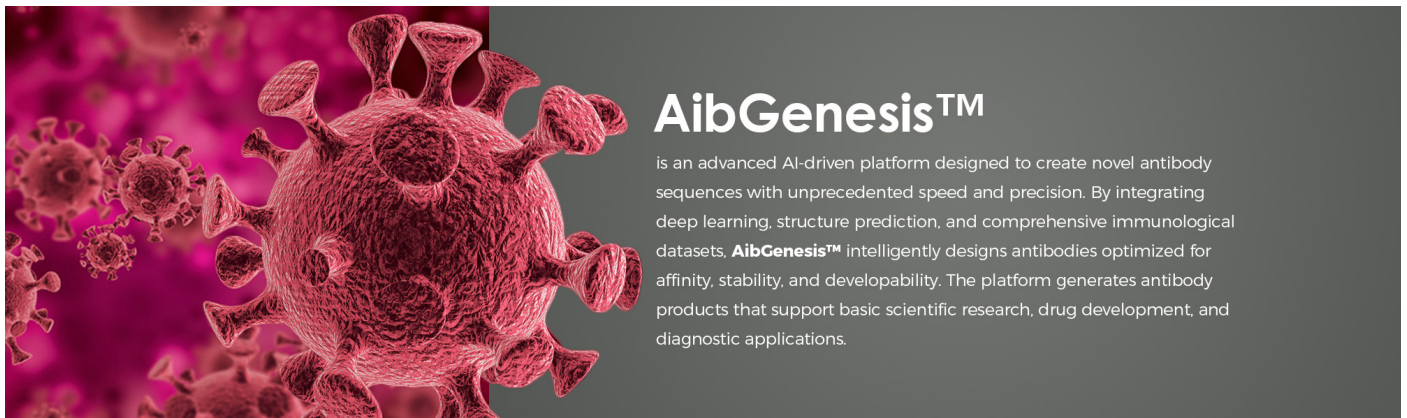
Virus Classification	Positive-sense single-stranded RNA Virus
Virus Family	<i>Flaviviridae</i>
Virus Genus	<i>Hepacivirus</i>
Species	<i>Hepacivirus hominis</i>
Virus Abbrev	HCV
Virus Name	Hepatitis C virus
Virus Alternatives Names	Hepatitis virus; Hepatitis; Hepatitis C virus; HCV
Genome Composition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

Target

Introduction

HCV is a positive, single-stranded RNA virus in the Flaviviridae family. The genome is approximately 10,000 nucleotides and encodes a single polyprotein of about 3,000 amino acids. The polyprotein is processed by host cell and viral proteases into three major structural proteins and several non-structural proteins necessary for viral replication. Several different genotypes of HCV with slightly different genomic sequences have since been identified that correlate with differences in response to treatment with interferon alpha. The small proteins NS2a, NS2b, NS4a and NS4b are hydrophobic, suggesting a possible membrane-related function. NS3 and NS5 may play a role in the viral RNA replication.

Target Alternative Names NS4



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.