

Product datasheet

Anti-Hepatitis C Virus NS4 antibody [497] ab19052

Overview

Product name	Anti-Hepatitis C Virus NS4 antibody [497]
Description	Mouse monoclonal [497] to Hepatitis C Virus NS4
Host species	Mouse
Specificity	ab19052 reacts with synthetic NS4a Protein (1689a.a.-1735a.a.) and recombinant Chimeric HCV Polyprotein (60 kDa). No cross reaction with synthetic recombinant Capsid Protein C + Envelope Protein M (core) (1a.a.-142a.a.), synthetic Capsid Protein C (1a.a.-61a.a.), recombinant NS3 Protein (1252a.a.-1477a.a.) and synthetic NS3 Protein (1378a.a.-1458a.a.)
Tested applications	Suitable for: ELISA, WB
Immunogen	Recombinant full length protein (Purified recombinant Chimeric HCV Polyprotein, 555aa)

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 0.01M PBS, pH 7.0
Purity	Protein G purified
Clonality	Monoclonal
Clone number	497
Myeloma	Sp2/0-Ag14
Isotype	IgM
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab19052** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		

Application	Abreviews	Notes
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WB

Application notes

ELISA: Use at an assay dependent dilution.
 WB: Use at a concentration of 0.5 µg/ml. Detects Recombinant Chimeric HCV Polyprotein at a band of approximately 60 kDa (predicted molecular weight: 60 kDa).

Not tested in other applications.
 Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance

NS4 A/B are two of the seven nonstructural (NS) proteins making up the HCV polyprotein. The NS proteins recruit the viral genome into an RNA replication complex, which is associated with rearranged cytoplasmic membranes. NS4A acts as a cofactor with the NS3 serine protease and stabilizes its folding. The NS3-NS4A complex is essential for the activation of the latter and allows membrane anchorage of NS3. 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. HCV is responsible for a large proportion of worldwide chronic viral hepatitis. Most of these infections develop into chronic hepatitis, which often progresses to liver cirrhosis and hepatocellular carcinoma. At present, (unlike hepatitis A and B), there is no vaccine to prevent hepatitis C infection. The hepatitis C virus (HCV) nonstructural protein 4B (NS4B) is a relatively hydrophobic 27-kDa protein. The 4A protein has a molecular weight of 6 kDa.

Cellular localization

Endoplasmic reticulum; multi-pass membrane protein.

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