

Product datasheet

Anti-Hepatitis C Virus NS3 antibody ab21124

5 References

Overview

Product name	Anti-Hepatitis C Virus NS3 antibody
Description	Goat polyclonal to Hepatitis C Virus NS3
Host species	Goat
Tested applications	Suitable for: ELISA, ICC/IF, WB
Immunogen	Recombinant full length protein (genotype 1a).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium Azide Constituents: 0.01M PBS, pH 7.2
Purity	Ion Exchange Chromatography
Purification notes	Sodium sulfate precipitation & ion-exchange chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab21124** 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		Use at an assay dependent dilution.
ICC/IF		Use at an assay dependent dilution.
WB		Use at an assay dependent dilution. Predicted molecular weight: 72 kDa.

Target

Relevance

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 including NS3, and several non-structural proteins necessary for viral replication. The NS3 part of the polyprotein displays three enzymatic activities: serine protease, NTPase and RNA helicase. The NS3 serine proteinase (NS3P) is a non-structural hepatitis C protein responsible for proteolytic processing of other non-structural proteins; because of this, it is also the most extensively studied protein of the Hepatitis C genome. It is responsible for proteolytic processing of the entire downstream region of the HC polyprotein, catalyzing cleavage at the NS3/NS4a, NS4a/NS4b, NS4b/NS5a, and NS5a/NS5b sites to release the mature NS3, NS4a, NS4b, NS5a, and NS5b proteins. For proper function, NS3 requires NS4a as a cofactor, but, interestingly enough, NS3 also cleaves the NS4a protein. The molecular weight of the monomer NS3P is 70 kDa.

Cellular localization

Endoplasmic reticulum membrane

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