

Product datasheet

Recombinant Hepatitis C Virus NS3 protein ab49022

1 References

Description

Product name	Recombinant Hepatitis C Virus NS3 protein
Biological activity	Strongly reacts with human HCV positive serum.
Purity	> 95 % SDS-PAGE. Purity of proteins is evaluated by SDS-PAGE
Expression system	Escherichia coli
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Amino acids	1192 to 1456
Tags	GST tag N-Terminus
Additional sequence information	HCV polyprotein (genotype 1B)

Specifications

Our **Abpromise guarantee** covers the use of **ab49022** in the following tested applications.

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

Applications	ELISA Flow Cytometry SDS-PAGE Western blot
Form	Liquid
Additional notes	Strongly reacts with human HCV positive serum. Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
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pH: 7.2

Constituents: 0.2% Triton-X-100, 9% Urea, 0.395% Tris HCl, 50% Glycerol (glycerin, glycerine)

General Info

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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
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