## Product datasheet

**Recombinant Hepatitis C Virus NS4 protein ab49028**

### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Recombinant Hepatitis C Virus NS4 protein</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein length</td>
<td>Protein fragment</td>
</tr>
</tbody>
</table>

### Description

<table>
<thead>
<tr>
<th>Nature</th>
<th>Recombinant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source</td>
<td>Escherichia coli</td>
</tr>
</tbody>
</table>

### Amino Acid Sequence

| Amino acids     | 1658 to 1863                                    |

### Specifications

Our [Abpromise guarantee](https://www.abcam.com/abpromise) covers the use of **ab49028** in the following tested applications.

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

**Biological activity**

Reacts strongly with human HCV positive serum.

**Applications**

- ELISA
- Western blot

**Purity**

> 95% SDS-PAGE.

**Form**

Liquid

**Additional notes**

Reacts strongly with human HCV positive serum.

### Preparation and Storage

**Stability and Storage**


- Preservative: None
- Constituents: 8M Urea, 20mM Tris HCl, 10mM Beta mercaptoethanol, pH 8

### General Info
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 hepatitides. 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.

Images

SDS-PAGE - Recombinant Hepatitis C Virus NS4 protein (ab49028)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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