Product datasheet

Anti-Hepatitis C Virus Core Antigen antibody ab58713

Overview

Product name: Anti-Hepatitis C Virus Core Antigen antibody
Description: Rabbit polyclonal to Hepatitis C Virus Core Antigen
Host species: Rabbit
Tested applications: Suitable for: WB, ELISA, ICC/IF
Species reactivity: Reacts with: Hepatitis C virus
Immunogen: Synthetic peptide corresponding to N-terminal residues of Hepatitis C virus core protein.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.01% Sodium azide
Constituents: PBS, 50% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of **ab58713** in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 21 kDa. for 2 hours. This antibody has been tested in Western blot against the recombinant peptide used as an immunogen. We have no data on detection of endogenous protein.</td>
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<tr>
<td>ELISA</td>
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<td>Use at an assay dependent concentration.</td>
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<tr>
<td>ICC/IF</td>
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<td>1/200.</td>
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</table>
The hepatitis C virus (HCV) core protein represents the first 191 amino acids of the viral precursor polyprotein and is cotranslationally inserted into the membrane of the endoplasmic reticulum. Hepatitis C virus (HCV) core is a viral structural protein; it also participates in some cellular processes, including transcriptional regulation. However, the mechanisms of core-mediated transcriptional regulation remain poorly understood. Hepatitis C virus (HCV) core protein is thought to contribute to HCV pathogenesis through its interaction with various signal transduction pathways. In addition, HCV core antigen is a recently developed marker of hepatitis C infection. The HCV core protein has been previously shown to circulate in the bloodstream of HCV-infected patients and inhibit host immunity through an interaction with gC1qR. Hepatitis C Virus 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. Hepatitis C virus (HCV) causes most cases of non-A, non-B hepatitis and results in most HCV infected people developing chronic infections, liver cirrhosis and hepatocellular carcinoma. T cell responses, including interferon-gamma production are severely suppressed in chronic HCV patients.

**Cellular localization**

Endoplasmic reticulum

**Images**

ab58713 staining Hepatitis C Virus Core Antigen in the Huh-7 hepatocyte cell line from Human liver by ICC/IF (immunocytochemistry/immunofluorescence). Cells were fixed with methanol/acetone (1:1) and blocked with 5% BSA for 1 hour at 25°C. Samples were incubated with primary antibody (1/200 in PBS + 0.5% BSA) for 16 hours at 4°C. An FITC-conjugated goat anti-rabbit IgG polyclonal (1/50) was used as the secondary antibody.

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

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