Anti-Hepatitis C Virus Core Antigen antibody [H6-29] (Biotin) ab192050

Overview

Product name
Anti-Hepatitis C Virus Core Antigen antibody [H6-29] (Biotin)

Description
Mouse Monoclonal [H6-29] to Hepatitis C Virus Core Antigen (Biotin)

Host species
Mouse

Conjugation
Biotin

Tested applications
Suitable for: ICC/IF, WB, IHC-Fr

Species reactivity
Reacts with: Hepatitis C virus

Immunogen
Recombinant fragment within Hepatitis C Virus Hepatitis C Virus Core Antigen aa 13-124 (internal sequence). The exact sequence is proprietary, corresponding to part of the Core protein region. Expressed in E. coli.

Sequence:
RNTNRPPQVDKFPGGQVGGVVLLPRRPGRLGVRAP
RKTSERSQPGRRQPPIKARRPE
GRTWAQGPYPWPLYGNEGLGWAGWLLSPRGRPSW
GPTDPRRSRLGKVID

Database link: P26663

Positive control
Chimpanzee liver infected with recombinant vaccinia virus containing a Hepatitis C virus genome cDNA lysate and cells. Human liver tissue from a patient with chronic hepatitis C.

General notes

Properties

Form
Liquid

Storage instructions

Storage buffer
Constituents: 50% PBS, 50% Glycerol

Purity
Protein A purified
Clonality: Monoclonal
Clone number: H6-29
Isotype: IgG2a
Light chain type: kappa

Relevance: 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 nonstructural 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

Applications

Our Abpromise guarantee covers the use of ab192050 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<tr>
<th>Application</th>
<th>Abreviews</th>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use at an assay dependent concentration. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa).</td>
</tr>
<tr>
<td>IHC-Fr</td>
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<td>Use at an assay dependent concentration.</td>
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Target

Relevance: 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 nonstructural 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
Anti-Hepatitis C Virus Core Antigen antibody [H6-29] (Biotin) (ab192050) + chimpanzee liver infected with recombinant vaccinia virus containing a Hepatitis C virus genome cDNA cell lysate

**Predicted band size:** 22 kDa
**Observed band size:** 22 kDa

Immunofluorescence analysis of acetone-fixed cells from chimpanzee liver infected with recombinant vaccinia virus containing a Hepatitis C virus genome cDNA cells, labeling Hepatitis C Virus NS4A using ab192050.

Immunohistochemical analysis of Human liver tissue from a patient with chronic hepatitis C, labeling Hepatitis C Virus NS4A using ab192050. Counterstained with hematoxylin.
Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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