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:
RNTNRPQDVKFPGGQIVGVYLLPPRGPRLGVRAP
RKTSERSQPRGRRQPIPKARRPE
GRTWAQPYPWPLGNEGLGWAGWLLSPRGRPSW
GPRRRRRNRLKVID
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.


Properties

Form: Liquid
Storage buffer: Constituents: 50% PBS, 50% Glycerol
Filter-sterilized.
Purity: Protein A purified
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 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
Western blot - 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.
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