abcam

Product datasheet

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

3 Images

Overview

Product name	Biotin Anti-Hepatitis C Virus Core Antigen antibody [H6-29]
Description	Biotin Mouse monoclonal [H6-29] to Hepatitis C Virus Core Antigen
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 1-150 (internal sequence). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. corresponding to part of the Core protein region. Expressed in E. coli. Database link: **P26663** Run BLAST with Run BLAST with
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	Biotin conjugated [biotin] / [IgG] = 6.6. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 6

	Constituents: 50% PBS, 50% Glycerol (glycerin, glycerine) Filter-sterilized.
Purity	Protein A purified
Clonality	Monoclonal
Clone number	H6-29
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee 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.

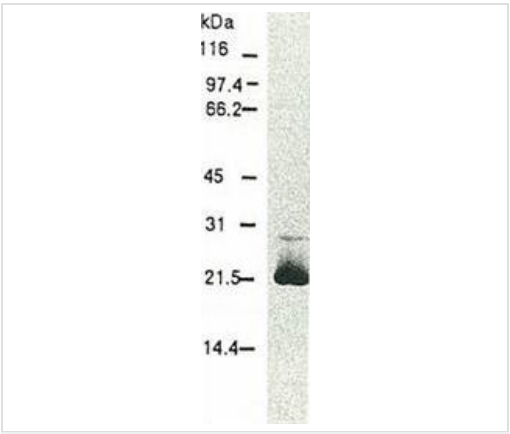
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa).
IHC-Fr		Use at an assay dependent concentration.

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 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

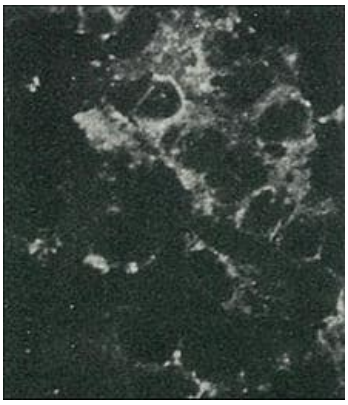
Images



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

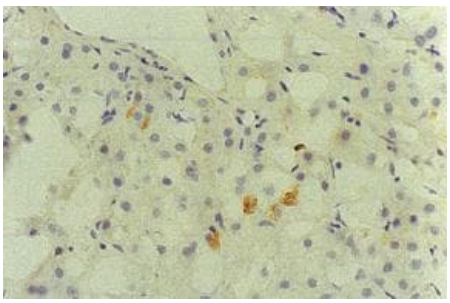
Biotin Anti-Hepatitis C Virus Core Antigen antibody [H6-29] (ab192050) + chimpanzee liver infected with recombinant vaccinia virus containing a Hepatitis C virus genome cDNA cell lysate

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



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

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.



Immunohistochemistry (Frozen sections) - Biotin Anti-Hepatitis C Virus Core Antigen antibody [H6-29] (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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