Product Datasheet

Anti-Hepatitis C Virus Core 1b antibody [C7-50] ab2740

3 Abreviews 90 References

Overview

Product name: Anti-Hepatitis C Virus Core 1b antibody [C7-50]
Description: Mouse monoclonal [C7-50] to Hepatitis C Virus Core 1b
Host species: Mouse
Specificity: Detects hepatitis C virus (HCV) core protein from transfected human and primate cell lines.
Tested applications: Suitable for: IP, Flow Cyt, ELISA, WB
Species reactivity: Reacts with: Hepatitis C virus
Immunogen: Recombinant full length protein (GST-tag) corresponding to Hepatitis C Virus Core 1b.
Epitope: This antibody recognizes an epitope between amino acid residues 21-40 of HCV core protein. This sequence is conserved among different HCV strains.

General notes: 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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.05% Sodium azide
Constituent: PBS
Purity: Protein A purified
Clonality: Monoclonal
Clone number: C7-50
Isotype: IgG1

Applications
## Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>1/100. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★☆☆ (1)</td>
<td>Use a concentration of 1 µg/ml. This antibody detects a single ~21 kDa protein representing HCV core protein in various transfected cell lines.</td>
</tr>
</tbody>
</table>

## Target

### Relevance

HCV (Hepatitis C Virus) viral core protein forms the internal viral coat that encapsidates the genomic RNA and is enveloped in a host cell-derived lipid membrane. The hepatitis C virus (HCV) core protein represents the first 177 amino acids of the viral precursor polyprotein and is cotranslationally inserted into the membrane of the endoplasmic reticulum. The N terminus of the core protein is involved in transcriptional repression. There are over 20 different subtypes of Hepatitis C Virus; HCV type 1b is mostly found in Europe and Asia. The prevalence of HCV type 1b infection has recently decreased, although it still accounts for most HCV-related cirrhosis and hepatocellular carcinoma. High HCV viremia levels and HCV genotype type 1b are independent predictors for poor response to interferon-alpha therapy. HCV core protein is among the most conserved proteins in HCV and is known to induce sensitization of cytotoxic T lymphocytes (CTL). Therefore, it is a prime candidate for a component of a potential HCV vaccine.

### Cellular localization

Secreted; Host endoplasmic reticulum membrane; Single-pass membrane protein; Host nucleus; Host cytoplasm.

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

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