**Product datasheet**

**Anti-Hepatitis C Virus E2 antibody ab54556**

### Overview

**Product name**  Anti-Hepatitis C Virus E2 antibody  
**Description**  Rabbit polyclonal to Hepatitis C Virus E2  
**Host species**  Rabbit  
**Tested applications**  Suitable for: WB, ELISA  
**Species reactivity**  Reacts with: Recombinant fragment  
**Immunogen**  A synthetic peptide corresponding to N-terminal residues of Hepatitis C Virus E2

### 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: 50% Glycerol, PBS  
**Purity**  Immunogen affinity purified  
**Clonality**  Polyclonal  
**Isotype**  IgG

### Applications

Our Abpromise guarantee covers the use of ab54556 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>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml 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 dilution.</td>
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### Target
Relevance

Hepatitis C E2 is a virus envelope glycoprotein which forms a heterodimer with the E1 protein. E2 inhibits human EIF2AK2/PKR activation, preventing the establishment of an antiviral state. E2 is a viral ligand for CD209/DC-SIGN and CLEC4M/DC-SIGNR, which are respectively found on dendritic cells (DCs), and on liver sinusoidal endothelial cells and macrophage-like cells of lymph node sinuses. These interactions allow capture of circulating HCV particles by these cells and subsequent transmission to permissive cells. DCs are professional antigen presenting cells, critical for host immunity by inducing specific immune responses against a broad variety of pathogens. They act as sentinels in various tissues where they entrap pathogens and convey them to local lymphoid tissue or lymph node for establishment of immunity. Capture of circulating HCV particles by these SIGN+ cells may facilitate virus infection of proximal hepatocytes and lymphocyte subpopulations and may be essential for the establishment of persistent infection.

Cellular localization

Viral envelope protein.

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