



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-HCV core protein [19D9D6] Bulk Size Ab04117-23.0-BT

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** 19D9D6

**Alternative Name(s) of Target:** Hepatitis C virus core protein

**UniProt Accession Number of Target Protein:**

**Published Application(s):** ELISA

**Published Species Reactivity:** HCV, Hepatitis C virus

**Immunogen:** The original antibody was generated by immunizing BALB/c JYco mice with a truncated recombinant protein corresponding to the immunodominant region (residues 1-120) of the Hepatitis C Virus (HCV) purified nucleocapsid protein (HCV C120-GST fusion protein).

**Specificity:** This antibody is specific for the protein sequence QIVGGVYLL located at residues 29-37 of the HCV core protein. Hepatitis C virus (HCV) is the primary cause of hepatitis transmitted through blood transfusion. It is an enveloped virus that contains a single-stranded, positive-sense RNA genome of approximately 9600 nucleosides. This genome encodes a polyprotein of 3011 amino acids, which undergoes post-translational cleavage to form both structural and nonstructural proteins. Among the structural proteins, the core protein is derived from the amino terminus of the viral polypeptide (amino acids 1-191).

**Application Notes:** This antibody was used for an indirect ELISA to detect anti-HCV core response in human sera, an ELISA competition assays to assess the interaction between monoclonal antibodies and anticore human sera, a sandwich ELISA for the capture and detection of viral core antigen in chronic HCV patient sera, and a sandwich ELISA for the detection of recombinant core protein (Jolivet-Reynaud et al., 1998; PMID: 9829633). The crystal structure of the Fab version of this antibody was solved in complex with an HCV core protein-derived peptide (residues 13-40), revealing the hydrophobic nature of the recognized epitope (Ménez et al., 2003; PMID: 12574359).

**Antibody First Published in:** Jolivet-Reynaud et al. HCV core immunodominant region analysis using mouse monoclonal antibodies and human sera: characterization of major epitopes useful for antigen detection *J Med Virol.* 1998 Dec;56(4):300-9. doi: 10.1002/(sici)1096-9071(199812)56:4<300::aid-jmv3>3.0.co;2-8 [PMID:9829633](#)

**Note on publication:** The original publication focuses on the generation of monoclonal antibodies (MAbs) against the immunodominant region of the hepatitis C virus (HCV) core protein and the characterization of major epitopes within this region that are useful for antigen detection.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.