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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-HCV core protein [19D9D6] Bulk Size Ab04117-21.0-BT

This antibody does not have a J-chain and therefore presents as a hexamer, rather than a pentamer.

Isotype and Format: Mouse IgM, 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: 500 µg Purified antibody in bulk size.

Purification: Affinity Purified using a recombinant lectin column

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.