



Mouse Anti-HCV Core Protein Monoclonal Antibody Datasheet

Product Name: mAb anti-HCV Core Protein

Clone No.: A1/3D1

Catalogue No.: MO-I40015A

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human hepatitis C virus (HCV) core protein

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human hepatitis C virus (HCV) core protein

Immunogen: Synthetic peptides derived from HCV core protein

Fusion Myeloma: Sp2/0-Ag14

Specificity: mAb A1/3D1 is reactive to recombinant core protein C + envelope protein M (residues 1-142 on HCV polyprotein) and synthetic core protein C (residues 1-61 on HCV polyprotein).

Species Reactivity: Human hepatitis C virus, others not tested

Cross - Reactivity: It showed no cross reaction with recombinant or synthetic HCV non-structural proteins (NS-3 and NS-4).

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Virology

Background: Hepatitis C virus (HCV) causes chronic hepatitis and liver cirrhosis in human through blood and body fluid transmission. HCV has a positive sense single RNA genome enclosed in the nucleocapsid made of Core Protein (Capsid Protein). The nucleocapsid is covered by an envelope made of lipoproteins (E1 and E2). The 9.6 kb HCV genome has a single open-reading frame, which is to be translated into a single polyprotein. HCV viral proteins are produced after processing the polyprotein. Genes for core protein and envelop proteins are located adjacently at the 5'-end of HCV genome, followed by genes for non-structural proteins including NS2, NS3, NS4A, NS4B, NS5, NS5A and NS5B.

Applications: **ELISA:** mAb A1/3D1 was tested using indirect ELISA method. The testing plates were coated with HCV non-structural protein (NS), core protein (C) and mixture of NS and C respectively. The neat culture supernatant of hybridoma showed a strong reactivity with HCV capsid protein (OD492 value > 2.0) and with mixture of NS and C (OD492 value >1.5), and showed no reactivity with HCV non-structural protein (OD492 value < 0.03). mAb A1/3D1 recognizes in-vitro translated HCV core protein

Not suitable for use in Western Blot

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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