



Mouse Anti-HCV Core Protein Monoclonal Antibody Datasheet

Product Name: mAb anti-HCV Core Protein

Clone No.: C3

Catalogue No.: MO-I40015E

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody (mAb) 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: Recombinant Chimeric Hepatitis C virus (HCV) polyprotein (555 amino acids)

Fusion Myeloma: Sp2/0-Ag14

Specificity: This mAb 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), and recombinant chimeric HCV polyprotein (60kDa).

Species Reactivity: Human hepatitis C virus, others not tested

Cross - Reactivity: No cross reaction with recombinant NS-3 protein, synthetic NS-3 protein and synthetic NS-4a protein.

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.0

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 envelope 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:** The mAb is reactive to HCV core protein and not reactive with HCV non-structural protein.

Western Blot: The antibody when used at concentration of 0.1µg/ml, will allow visualization of 0.1µg/lane recombinant core protein C + envelope protein M (residues 1-142 on HCV polyprotein), 0.5µg/lane synthetic core protein C (residues 1-61 on HCV polyprotein), and 0.1µg/lane recombinant 60kDa chimeric HCV polyprotein. The mAb works on blots transferred from both reducing and non-reducing PAGE gel. The mAb has been used successfully in the recognition of in-vitro translated HCV core protein.

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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