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Mouse Anti-HCV NS-3 Monoclonal Antibody Datasheet

Product Name: mAb anti-HCV NS-3

Clone No.: 251

Catalogue No.: MO-I40018N

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody (mAb) to human hepatitis C virus (HCV) non-structural protein NS-3

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human hepatitis C virus (HCV) non-structural protein NS-3

Immunogen: Purified recombinant chimeric HCV polyprotein (555 amino acid residues)

Fusion Myeloma: Sp2/0-Ag14

Specificity: mAb 251 reacts with recombinant NS-3 (residues 1252 -1477 on HCV polyprotein) and recombinant chimeric HCV polyprotein (60 kDa.)

Species Reactivity: Human hepatitis C virus, others not tested

Cross - Reactivity: No cross reaction can be seen with recombinant core protein C + envelope protein M (residues 1-142), synthetic core protein C (residue 1-61), synthetic NS-3 (residues 1378-1458) and synthetic NS-4a protein (residues 1689-1735)

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 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:** React with HCV NS-3

Western Blot: mAb clone 251, when used at 0.1-1µg/mL will allow visualization of 100ng/lane of both recombinant chimeric HCV polyprotein and recombinant NS-3. Testing was conducted with blots transferred from both reducing and non-reducing PAGE gel.

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.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administered to human and animals for use in diagnostic and therapeutic procedures.

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