



ANOGEN - A Division of YES Biotech Laboratories Ltd.

2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023

Mouse Anti-HCV NS-4 Monoclonal Antibody Datasheet

Product Name: mAb anti-HCV NS-4

Clone No.: 497

Catalogue No.: MO-I40016M

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human hepatitis C virus (HCV) non-structural protein NS-4

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human hepatitis C Virus non-structural protein NS-4

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

Fusion Myeloma: Sp2/0-Ag14

Specificity: The mAb reacts with synthetic NS-4a protein (residues 1689-1735 on HCV polyprotein) and recombinant chimeric HCV polyprotein (60 kDa).

Species Reactivity: Human hepatitis C virus, others not tested

Cross - Reactivity: No cross reaction with synthetic recombinant core protein C + envelope protein M (residues 1 -142), synthetic core protein C (residues 1 -61), recombinant NS-3 protein (residues 1252 -1477) and synthetic NS-3 protein (residues 1378 -1458)

Host / Isotype: Mouse, IgM 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 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:** React with HCV NS-4.

Western Blot: This mAb when used at concentration of 0.5µg/mL, will allow visualization of 0.5µg /lane of synthetic NS-4 peptide and 0.1µg /lane recombinant chimeric HCV polyprotein.

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 administrated to human and animals for use in diagnostic and therapeutic procedures.

Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.