**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.: 5D4/10E7**

**Catalogue No.: MO-I40016D** | **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:** | A synthetic polypeptide of at least 90 residues in length, selected from the immunodominant NS-4 region of Chinese HCV strains. |
| **Fusion Myeloma:** | Sp2/0-Ag14 |
| **Specificity:** | The mAb reacts with synthetic NS-4a protein, and recombinant chimeric HCV polyprotein (60 kDa). |
| **Species Reactivity:** | Human hepatitis C virus , others not tested |
| **Cross - Reactivity:** | No cross-reaction with HCV core region and other non-structural region. |
| **Host / Isotype:** | Mouse, IgG1 Kappa |
| **Formulation:** | Lyophilized from a solution in 0.01M PBS, pH 7.0 |
| **Reconstitution:** | Double distillated water is recommended to adjust the final concentration to 1.00mg/mL. |
| **Storage:** | Store at -20$^{o}$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 human Hepatitis C Virus.

**Western Blot:** The 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.

**Immunohistochemistry:** The mAb has been used in immunoperoxidase -avidin-biotin (ABC) assay for Formalin-fixed paraffin embedded tissue section.

**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.





**To place order, please contact us by phone, fax or by email: info@anogen.ca,**
**or with our secure online store: www.anogen.net**