



# ANOGEN - A Division of YES Biotech Laboratories Ltd.

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## Mouse Anti-HCV NS-4 Monoclonal Antibody Datasheet

**Product Name:** mAb anti-HCV NS-4

**Clone No.:** 7B7/5G9

**Catalogue No.:** MO-I40016B

**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 (HCV) 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:** mAb 7B7/5G9 is reactive with synthetic NS-4a (residues 1689-1735 on HCV polyprotein) and recombinant chimeric HCV (60 kDa).

**Species Reactivity:** Human hepatitis C virus, others not tested

**Cross - Reactivity:** No cross reaction can be seen with HCV core region and other non-structural regions.

**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 7B7/5G9 is reactive with synthetic NS-4a (residues 1689-1735) in indirect ELISA.

**Western Blot:** mAb 7B7/5G9, at concentration of 0.5µg/mL will allow visualization of 0.5-1.0µg/lane synthetic NS-4a, and 0.1µg/lane recombinant chimeric HCV. The mAb works on 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 administrated to human and animals for use in diagnostic and therapeutic procedures.

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