



anti- HCV NS5a protein antibody, monoclonal (8926), FITC conjugated

65-064 50 μg

Hepatitis C virus (HCV) is a small (55-65 nm in size), enveloped, positive sense single-stranded RNA virus in the family *Flaviviridae* and the principal cause of parenteral non-A, non-B hepatitis. The virus genome consists of a single open reading frame of approximately 9,400 bases which encodes a single polyprotein of about 3,010 amino acids (1, 2, 3). The polyprotein is processed by host cell and viral proteases into four structural proteins (core, envelope1 and 2, and p7) and six non-structural proteins (NS2, 3, 4a, 4b, 5a, and 5b) necessary for viral replication. The primary function of **NS5a** is not known, but from the comparative studies with other viruses it is predicted to play a role in RNA replication.

Applications

1. Western blotting 2. Immunofluorescence staining 3. FACS

Immunogen: A region of NS5a protein of HCV genotype 1b (ref.4) expressed in E. coli

Conjugate: FITC conjugated, [FITC] / [IgG] = 4.8

Isotype: Mouse IgG 2a kappa

Form: Purified monoclonal antibody (IgG) 1.4 mg/ml in PBS, 50% glycerol, filter-sterilized

Specificity: Specific to human HCV NS5a protein

Storage: Shipped at 4 and stored at -20

Data Link: Swiss-Prot HCV protein

References: This antibody is produced and used in ref.4.

SCET

- Choo, Q-L. *et al.* (1989) "Isolation of a cDNA clone derived from a blood-borne non-A, non-B viral hepatitis genome. *Science* 244, 359-362 <u>PMID: 2523562</u>
- Kato,N. *et al.* (1990) "Molecular cloning of the human hepatitis C virus genome from Japanese patients with non-A, non-B hepatitis." *Proc. Natl. Acad. Sci. USA* 87, 9524-9528 <u>PMID: 2175903</u>
- Takamizawa, A. *et al.* (1991) "Structure and organization of the hepatitis C virus genome isolated from human carriers." *J. Virol.*65, 1105-1113 PMID: 1847440
- Manabe, S. *et al.* (1994) "Production of nonstructural proteins of hepatitis C virus requires a putative viral protease encoded by N3." *Virology* 198, 636-644 <u>PMID: 8291245</u>

Related products: #65-061 anti-HCV NS5a antibody, #65-063 anti-HCV NS5a antibody biotin conjugated

To be continued.....

SCETI K.K.

3-6-7 Kasumigaseki, Chiyoda-ku Tokyo 100-0013 JAPAN Tel: +81-3-5510-2347 Fax: +81-3-5510-0134 E-mail: exp-pet@sceti.co.jp URL: www.sceti.co.jp/export/

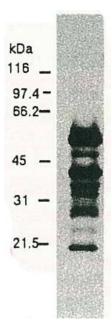
< Manufactured by >: BioAcademia,Inc.

< Distributed by >:

a,Inc. 7-7-18 Saito-Asagi, Ibaraki, Osaka 567-0085, JAPAN







 $Fig. 1 \quad We stern \ blotting \ of \ HCV \ NS5a \ protein.$

Chimp liver cells were infected with recombinant vaccinia virus containing a HCV genome cDNA and were subjected to Western blotting using the anti-NS5a antibody. The multitude of NS5a-specific products must be the degraded products of NS5a protein (52 kD).



Fig.2 Detection of HCV NS5a protein by immunofluorescence antibody staining.

Chimp liver cells were infected with recombinant vaccinia virus containing a HCV genome cDNA. After incubation for 48 hr, the cells were fixed with acetone and HCV NS5a protein was detected by indirect immunofluorescence staining using this antibody.



3-6-7 Kasumigaseki, Chiyoda-ku Tokyo 100-0013 JAPAN Tel: +81-3-5510-2347 Fax: +81-3-5510-0134 E-mail: exp-pet@sceti.co.jp URL: www.sceti.co.jp/export/ 7-7-18 Saito-Asagi, Ibaraki, Osaka 567-0085, JAPAN

< Manufactured by >: BioAcademia,Inc.