

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

65-064 50 ug

**Shipping and Storage**: Shipped at  $4^{\circ}$ C or  $-20^{\circ}$ C and store at  $-20^{\circ}$ C.

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

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

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

**Isotype**: Mouse IgG  $2a \kappa$ 

Reactivity: Specific to human HCV NS5a protein of genotype 1b. Not tested in other genotypes.

## Applications

1. Western blotting 2. Immunofluorescence staining Other applications have not been tested Background: 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.

Data Link: Swiss-Prot HCV protein

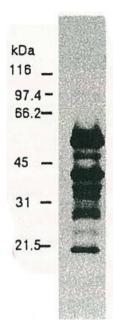
## References: This antibody is produced and used in ref.4.

- 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 PMID: 2523562
- 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 PMID: 2175903
- 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 PMID: 8291245

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

To be continued.....





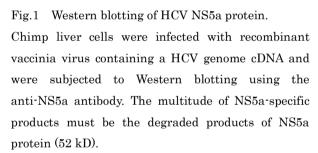




Fig.2 Detection of HCV NS5a protein by immunofluorescence antibody staining. Chimp liver cells were infected with recombinant vaccinia virus containing a HCV genome cDNA. After incubation for 48 hr, the cells were fixed with acetone and HCV NS5a protein was detected by indirect immunofluorescence staining using this antibody.