



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. 65-067EX

Anti-Hepatitis C Virus (HCV) NS5b protein (NS5B-6)

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. **NS5b** forms the C-terminal protein of the HCV polyprotein and is thought to represent the viral polymerase involved in RNA replication.

Product type	Primary antibodies
Host	Mouse
Source	
Form	Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized
Volume	100µg
Concentration	
Specificity	Specific to human HCV NS5b protein of genotype 1b. Not tested in other genotypes.
Antigen	A region of NS5a protein (the nucleotide sequence is shown in ref.4) of HCV genotype 1b expressed in <i>E.coli</i>
Clone	NS5B-6
Isotype	Mouse IgG2b kappa

Application notes	1.WB 2. Immunofluorescence staining Other applications have not been tested. Optimal dilutions/concentrations should be determined by the end user. Swiss-Prot HCV protein
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Storage Shipped at 4°C or with blue ice and store at -20°C

References

(This antibody is produced and used in ref.4)

1. 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](#)
2. 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](#)
3. 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](#)
4. 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	# 65-051EX anti-HCV Core antibody # 65-056EX anti-HCV NS4a antibody # 65-061EX anti-HCV NS5a antibody
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Inspiration for Life Science

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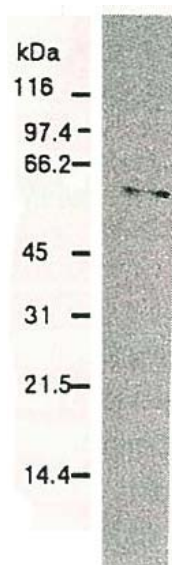


Fig.1 Western blotting of HCV NS5b protein.

Chimp liver cells were infected with recombinant vaccinia virus containing a HCV genome cDNA and were subjected to Western blotting using this antibody. The antibody detected as a 58-kDa band.



Fig.2 Detection of HCV NS5b 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 NS5b protein was detected by indirect immunofluorescence staining using this antibody.

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