

MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-65-068-EX

Anti-HCV NS5b protein antibody (NS5B-6), biotin conjugated

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 polypeptide of about 3,010 amino acids (1, 2, 3). The polypeptide 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 polypeptide and functions as the viral polymerase involved in RNA replication.

Product type	Primary antibodies
Host	Mouse
Source	
Form	Liquid 0.7 mg/ml in PBS, 50% glycerol, filter-sterilized
Volume	50 µg
Concentration	
Specificity	HCV NS5b protein
Antigen	A region of NS5a protein (the nucleotide sequence is shown in ref.4) of HCV genotype 1b expressed in <i>E. coli</i> Conjugate: Biotin conjugated , [biotin] / [IgG] = 8.7
Clone	NS5B-6
Isotype	Mouse IgG2b kappa

Application notes WB, Immunofluorescence staining, ELISA, FACS

Recommended use

Recommended dilutions

Optimal dilutions/concentrations should be determined by the end user.

Data Link: Swiss-Prot [HCV protein](#)

Cross reactivity Specific to human HCV NS5b protein

Storage -20°C

References

(This antibody is used in ref.4.)

- 1) Brass V, Moradpour D, Blum HE. Molecular Virology of Hepatitis C Virus (HCV): 2006 Update. *Int J Med Sci* 2006; **3**:29-34 PMID: [16614739](#)
- 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

65-066	Anti-HCV NS5b antibody
65-069	Anti-HCV NS5b antibody, FITC conjugated

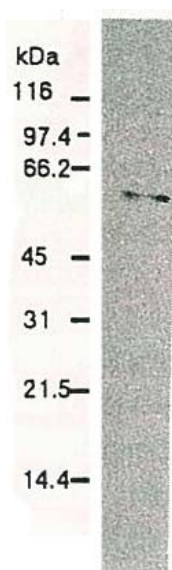


Fig.1 Western blotting of HCV NS5b protein.
Chimp liver cells were infected with recombinant vaccinia virus containing a HCV genome cDNA and were subjected to Western blotting using this antibody. The NS5b protein is detected as a 58-kDa band.



Fig.2 Detection of HCV NS5b protein by immuno-fluorescence 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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