



Anti-HCV Nonstructural Protein 4 Monoclonal antibody, Clone 9B2 (DMAB3574)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Monoclonal Antibody to Hepatitis C Virus (HCV) NS-4 antigen
Antigen Description	NS4 A/B are two of the seven nonstructural (NS) proteins making up the HCV polyprotein. The NS proteins recruit the viral genome into an RNA replication complex, which is associated with rearranged cytoplasmic membranes. NS4A acts as a cofactor with the NS3 serine protease and stabilizes its folding. The NS3-NS4A complex is essential for the activation of the latter and allows membrane anchorage of NS3.
Specificity	Recognizes HCV NS4 antigen
Target	HCV Nonstructural Protein 4
Immunogen	HCV NS4 recombinant antigen (NS4a+b a.a. 1658-1863, 19kDa)
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	HCV
Clone	9B2
Purification	Protein G chromatography
Conjugate	FITC
Applications	Suitable for use in Western blot, ELISA, IFA and IHC. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Concentration	1mg/mL

Size	100 µg
Buffer	1X PBS, pH 7.2
Preservative	0.01% Sodium Azide
Storage	Short term (up to 2 months) store at 2-8°C. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

BACKGROUND

Introduction	HCV is a positive, single-stranded RNA virus in the Flaviviridae family. The genome is approximately 10,000 nucleotides and encodes a single polyprotein of about 3,000 amino acids. HCV is responsible for a large proportion of worldwide chronic viral hepatitis. Most of these infections develop into chronic hepatitis, which often progresses to liver cirrhosis and hepatocellular carcinoma. At present, (unlike hepatitis A and B), there is no vaccine to prevent hepatitis C infection. The hepatitis C virus (HCV) nonstructural protein 4B (NS4B) is a relatively hydrophobic 27-kDa protein. The 4A protein has a molecular weight of 6 kDa.
Keywords	HCV; HCV NS4; Hepatitis C Virus nonstructural antigen 4; Non structural protein 4A; Non structural protein 4B; NS4A; NS4B; Flaviviridae; Hepacivirus; Hepatitis C virus; p27; p8; Hepatitis C Virus NS4