

**ARG10065**  
anti-HCV NS4 antibody [5D4/10E7]Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [5D4/10E7] recognizes Hepatitis C virus NS4
Tested Reactivity	HCV
Tested Application	ELISA, IHC-P, WB
Specificity	No cross-reaction with HCV core region and other non-structure region.
Host	Mouse
Clonality	Monoclonal
Clone	5D4/10E7
Isotype	IgG1, kappa
Target Name	HCV NS4
Antigen Species	HCV
Immunogen	Synthetic polypeptide of at least 90 residues in length was selected from the immunodominant NS-4 regions of Chinese HCV strains.
Conjugation	Un-conjugated

### Application Instructions

Application Note	<p>ELISA: React with human Hepatitis C Virus.</p> <p>Western Blot: The mAb when used at concentration of 0.5µg/mL will allow visualization of 0.5 µg/lane of synthetic NS-4 peptide and 0.1 µg/lane recombinant chimeric HCV polyprotein.</p> <p>Immunohistochemistry: The mAb has been used in immunoperoxidase -avidin-biotin (ABC) assay for Formalin-fixed paraffin embedded tissue section.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>
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### Properties

Form	Liquid
Purification	Protein G affinity purified
Buffer	0.01M PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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### Background

Hepatitis C virus (HCV) causes chronic hepatitis and liver cirrhosis in human through blood and body fluid transmission. HCV has a positive sense single RNA genome enclosed in the nucleocapsid made of core protein (capsid protein). The nucleocapsid is covered by an envelope made of lipoproteins (E1 and E2). The 9.6 kb HCV genome has a single open-reading frame, which is to be translated into a single polyprotein. HCV viral proteins are produced after processing the polyprotein. Genes for core protein and envelop proteins are located adjacently at the 5'-end of HCV genome, followed by genes for non-structural proteins including NS2, NS3, NS4A, NS4B, NS5, NS5A and NS5B.

### Research Area

Microbiology and Infectious Disease antibody