

## ARG10064 anti-HCV Core antigen / HCcAg antibody [B2]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [B2] recognizes Hepatitis C virus core antigen
Tested Reactivity	HCV
Tested Application	ELISA, ICC/IF, WB
Specificity	No cross reaction with recombinant or synthetic HCV non-structural proteins (NS-3 and NS-4).
Host	Mouse
Clonality	Monoclonal
Clone	B2
Isotype	IgG1, kappa
Target Name	HCV Core antigen / HCcAg
Antigen Species	HCV
Immunogen	Synthetic peptides derived from HCV core protein
Conjugation	Un-conjugated

### Application Instructions

Application Note	<p>ELISA: The mAb reacts with human hepatitis C virus core protein, and doesn't react with HCV non-structure protein.</p> <p>Western Blot: The mAb, when used at concentration of 0.1-0.5µg/mL, will allow visualization of 0.1 µg/lane of recombinant core protein C + envelope protein M, 0.5µg /lane synthetic core protein C, and 0.1µg /lane recombinant chimeric HCV polyprotein (552 aa, around 60 kDa). The mAb works on blots transferred from both reducing and non-reducing PAGE gel. The mAb recognizes in-vitro translated HCV core protein (around 20 kDa) when used at concentration of 1 µg/mL.</p> <p>Immunofluorescent analysis: The mAb recognizes HCV core in HCV core expressing plasmid transfected cells at 1:200 dilution.</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

Database links

[GeneID: 951475 HCV](#)

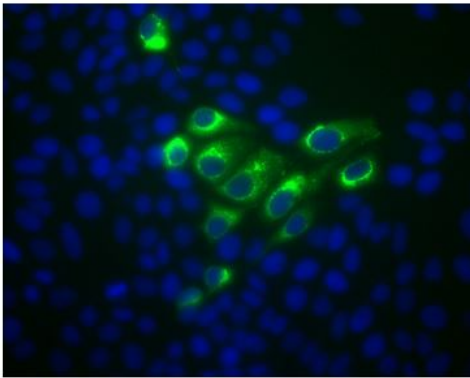
Background

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

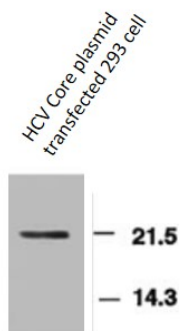
Microbiology and Infectious Disease antibody

## Images



ARG10064 anti-HCV Core antigen / HCcAg antibody [B2] ICC/IF image

Immunofluorescence: Cells stained with ARG10064 anti-HCV Core antigen / HCcAg antibody [B2] (green).



ARG10064 anti-HCV Core antigen / HCcAg antibody [B2] WB image

Western blot: HCV Core protein expressing plasmid transfected 293 cells stained with ARG10064 anti-HCV Core antigen / HCcAg antibody [B2].

ARG10064 anti-HCV Core antigen / HCcAg antibody [B2] WB image

Western blot: HCV Core protein stable expressed Huh7 cells stained with ARG10064 anti-HCV Core antigen / HCcAg antibody [B2] and anti-beta actin antibody.

