

AM00883PU-N**Monoclonal Antibody to HCV Core protein (33-38) - Purified****Alternate names:**

Hepatitis C Virus core protein

Quantity:

1 mg

Concentration:

0.1 mg/ml (OD280nm, E0.1% = 1.4)

Background:

The hepatitis C virus (HCV) core protein represents the first 191 amino acids of the viral precursor polyprotein and is cotranslationally inserted into the membrane of the endoplasmic reticulum. Hepatitis C virus (HCV) core is a viral structural protein; it also participates in some cellular processes, including transcriptional regulation. However the mechanisms of core-mediated transcriptional regulation remain poorly understood. Hepatitis C virus (HCV) core protein is thought to contribute to HCV pathogenesis through its interaction with various signal transduction pathways. In addition, HCV core antigen is a recently developed marker of hepatitis C infection. The HCV core protein has been previously shown to circulate in the bloodstream of HCV-infected patients and inhibit host immunity through an interaction with gC1qR. Hepatitis C Virus 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. The polyprotein is processed by host cell and viral proteases into three major structural proteins and several non structural proteins necessary for viral replication.

Hepatitis C virus (HCV) causes most cases of non-A, non-B hepatitis and results in most HCV infected people developing chronic infections, liver cirrhosis and hepatocellular carcinoma. T cell responses, including interferon-gamma production are severely suppressed in chronic HCV patients.

Host / Isotype:

Mouse / IgG1

Recommended Isotype Controls:

AM03095PU-N

Clone:

B317M

Immunogen:

Recombinant HCV Core

Format:**State:** Liquid purified IgG fraction (>90% pure by SDS-PAGE)**Purification:** Protein A Chromatography**Buffer System:** 0.01M PBS, pH 7.2 containing 0.09% Sodium Azide as preservative**Stabilizers:** None**Applications:****ELISA (Capture/Detection).****Immunofluorescence.****Immunohistochemistry.****Western Blot.****Recommended Pair for Sandwich Immunoassay:**

Capture/Detection: AM00879PU-N/AM00883PU-N, AM00880PU-N/AM00883PU-N

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody reacts to Hepatitis C Virus (HCV) Core Antigen, amino acids 33-38.

Storage: Store undiluted at 2-8°C.
Shelf life: one year from despatch.