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# AP00755PU-N Polyclonal Antibody to HCV Core protein (1-120) - Purified

**Alternate names:** Hepatitis C Virus core protein

**Quantity:** 1 ml

**Concentration:** 4-5 mg/ml (OD280nm, E0.1% = 1.4)

**Background:** 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. The polyprotein is processed by host cell and viral proteases into three major structural proteins and several non structural protein necessary for viral replication. Several different genotypes of HCV with slightly different genomic sequences have since been identified that correlate with differences in response to treatment with interferon alpha.
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.

**Host:** Goat

**Immunogen:** Recombinant HCV Core Antigen (Catalog BIN018).

**Format:** **State:** Liquid purified Ig fraction (>95% pure).
**Purification:** Sodium Sulfate Precipitation and Ion-Exchange Chromatography.
**Buffer System:** 0.01M PBS, pH 7.2 containing 0.09% Sodium Azide as preservative.

**Applications:** ELISA.
Western Blot.
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 Core antigen (amino acids 1-120).

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.