

## HCV Core Genotype-1b Biotin

**Description:** The E.coli derived recombinant Biotin Labeled protein contains the HCV core nucleocapsid immunodominant regions, amino acids 2-192. The protein is fused to a beta-galactosidase (114 kDa) N-terminus.

**Catalog #:** HCPS-249

For research use only.

**Purity:** Protein is >95% pure as determined by SDS-PAGE.

**Purification Method:**

HCV Core protein was purified by proprietary chromatographic technique.

**Specificity:**

Immunoreactive with sera of HCV-infected individuals.

**Formulation:**

25mM Tris-HCl pH 8, 0.2% Triton-X, 50% Glycerol and 1.5M urea.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Applications:**

ELISA, Western blots and Flow-through.

**Introduction:**

HCV is a small 50nm, enveloped, single-stranded, positive sense RNA virus in the family Flaviviridae. HCV has a high rate of replication with approximately one trillion particles produced each day in an infected individual. Due to lack of proofreading by the HCV RNA polymerase, the HCV has an exceptionally high mutation rate, a factor that may help it elude the host's immune response. Hepatitis C virus is classified into six genotypes (1-6) with several subtypes within each genotype. The preponderance and distribution of HCV genotypes varies globally. Genotype is clinically important in determining potential response to interferon-based therapy and the required duration of such therapy. Genotypes 1 and 4 are less responsive to interferon-based treatment than are the other genotypes (2, 3, 5 and 6).

**Storage:**

HCV Core although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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