

## HBV core delta

**Description:** The E.coli derived 14kDa recombinant protein contains the HBV core delta ayw immunodominant region amino acids 1-144.

Catalog #: HBPS-277

**Purity:** HBV Core Delta protein is >95% pure as determined by 10% PAGE (coomassie staining).

For research use only.

**Purification Method:**

Purified by proprietary chromatographic technique.

**Specificity:**

Immunoreactive with sera HBV-infected individuals.

**Formulation:**

7.5mM Phosphate buffer pH-7.2, 75mM NaCl, & 50% glycerol.

**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:**

HBV Core Delta antigen is suitable for ELISA and Western blots, excellent antigen for detection of HBV with minimal specificity problems.

**Introduction:**

Hepatitis B is one of a few known non-retroviral viruses which employ reverse transcription as a part of its replication process. (HIV, a completely unrelated virus, also uses reverse transcription, but it is a retrovirus.) HBV invades the cell by binding to surface receptor and become internalized. The viral core particles then migrate to the hepatocyte nucleus and the partially double-stranded, relaxed circular genomes (RC-DNA) are repaired to form a covalently closed circular DNA (cccDNA), which is the template for viral genomic and sub-genomic RNAs by cellular RNA polymerase II. Of these, the pregenomic RNA (pgRNA) is selectively packaged into progeny capsids and is then reverse-transcribed into new RC-DNA. The core can either bud into the endoplasmic reticulum to be enveloped or exported from the cell or recycled back into the genome for conversion to cccDNA.

**Storage:**

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

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