

HBV core (1-186 a.a.)

Description: The E.coli derived recombinant protein contains the HBV core immunodominant region amino acids 1-186, and fused to a His tag at N- terminus.

Catalog #: HBPS-239

Purity: HBV Core protein is >90% pure as determined by 10% PAGE (Coomassie staining).

For research use only.

Purification Method:

HBV Core protein was purified by proprietary chromatographic technique.

Specificity:

Immunoreactive with sera HBV-infected individuals.

Formulation:

25mM Tris-HCl pH-8.0, 1.5mM Urea & 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 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 protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

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