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Hepatitis B Core /HBcAg (1-186) - Purified

Catalog No.: AR10549PU-N

Quantity: 0.5 mg

Concentration: 1.0 mg/ml

Background: Hepatitis B is one of a few known non-retroviralviruses which employ reverse transcriptionas 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.

Source: E. coli

Format: **State:** 10mM Tris-HCl pH8.0, 50mM NaCl, 1mM EDTA, 50% Glycerol
Purity: >90% pure as determined by 10% PAGE (coomassie staining).
Purification Method: Protein Precipitation.

Applications: Antigen in ELISA and Western blots, excellent antigen for detection of HBV with minimal specificity problems.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description: The *E.coli* derived recombinant protein contains the HBV core immunodominant region, amino acids 1-186.
Specificity: Immunoreactive with sera of HBV-infected individuals.

Storage: Store 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.