

## Recombinant HBcAg Protein, ayr subtype, His-tagged

Cat. No. HBcAg-001 Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant HBcAg Protein (a.a. 1-149), ayr subtype, with a C-terminal 6xHis tag was expressed in E. coli.

**Species** HBV

**Source** E.coli

**ProteinLength** 1-149 a.a.

#### Description

Self assembles to form an icosahedral capsid. Most capsid appear to be large particles with an icosahedral symmetry of T=4 and consist of 240 copies of capsid protein, though a fraction forms smaller T=3 particles consisting of 180 capsid proteins. Entering capsid are transported along microtubules to the nucleus. Phosphorylation of the capsid is thought to induce exposure of nuclear localization signal in the C-terminal portion of the capsid protein that allows binding to the nuclear pore complex via the importin (karyopherin-) alpha and beta. Capsids are imported in intact form through the nuclear pore into the nuclear basket, where it probably binds NUP153. Only capsids that contain the mature viral genome can release the viral DNA and capsid protein into the nucleoplasm. Immature capsids get stuck in the basket. Capsids encapsulate the pre-genomic RNA and the P protein. Pre-genomic RNA is reverse transcribed into DNA while the capsid is still in the cytoplasm. The capsid can then either be directed to the nucleus, providing more genome for transcription, or bud through the endoplasmic reticulum to provide new virions.

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<b>Purity</b>	>95%
<b>Applications</b>	WB standard, Ab ELISA, immunogen, etc.
<b>Storage</b>	Store at -80 centigrade, Avoid freeze/thaw cycle.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4)

## GENE INFORMATION

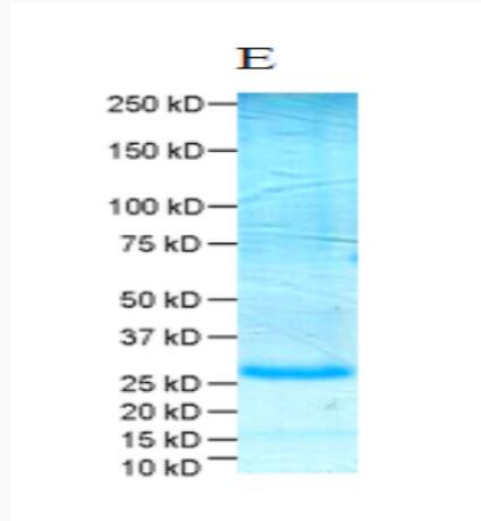
<b>Gene Name</b>	C capsid protein;pre-capsid protein [ Hepatitis B virus ]
<b>Official Symbol</b>	C
<b>Synonyms</b>	C; capsid protein;pre-capsid protein; HBVgp4; capsid protein; pre-capsid protein; precursor
<b>Gene ID</b>	944568
<b>Protein Refseq</b>	NP_647607
<b>UniProt ID</b>	P03146

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