

Hepatitis B Virus core Antigen (HBcAg), Recombinant

Hepatitis B virus has core structure in which virus genome is contained. C proteins, by self-assembling each other, form the core (or capsid) structure (a hollow nanoparticle). Virus genome (DNA) is encapsulated in the nanoparticle. Thus, HBcAg is a particle composed of C proteins. HBcAg is not generally found in infected serum, but antibody against HBcAg is a diagnostic marker that indicates history of HBV infection.

This product is HBcAg that is produced in *E. coli* that is transfected by whole sequence of C protein genome.

General information

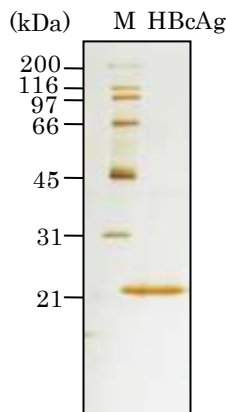
Source : *E. coli*
 Appearance : Lyophilized white powder
 Structure : Particle (about 40 nm by dynamic light scattering method) composed of 21kDa C protein.
 Dissolve : For 100 µg vial, added 500 µL of water to the vial that makes an antigen solution at 0.2 mg/mL in PBS (137 mM NaCl, 8.1 mM Na₂HPO₄ · 12H₂O, 2.68 mM KCl, 1.47 mM KH₂PO₄, pH 7.2 - 7.4) containing 1% sucrose.
 Purity : over 95%
 Storage : -20°C (1 years guarantee after dispatch)
 Endotoxin : < 50 EU/mg protein
 Usage : Standard antigen for ELISA, western, and others
 Tagged Pre-S1 peptides are better for ELISA plate immobilization.

*Caution : The antigen may be adsorbed on plastic tubes especially low concentration (below 100ng/mL).
 Please use protein low bind tubes at lower concentration.

Product variation and product

product#	product name
BCL-HBC-01	Hepatitis B virus Core antigen, recombinant

SDS-PAGE (silver staining)



HbcAg of 100ng was subjected to SDS-PAGE (M :Marker)