

## ARG82006 HBV Core antigen / HBcAg ELISA Kit

Package: 96 wells  
Store at: 4°C, -20°C

### Summary

Product Description	ARG82006 HBV Core Antigen ELISA Kit is an Enzyme Immunoassay kit for the quantification of HBV Core Antigen in purified virus or unpurified viral supernatant.
Tested Reactivity	HBV
Tested Application	ELISA
Specificity	ARG82006 HBV Core Antigen ELISA Kit will recognize HBV core antigen from serotypes ADW, ADR, AYW and AYR.
Target Name	HBV Core antigen / HBcAg
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	1 ng/ml
Sample Type	Purified virus or unpurified viral supernatant
Standard Range	1.56 - 100 ng/ml
Sample Volume	100 µl
Precision	The CV values of intra-assay precision was 4-5% and inter-assay precision was 8%.
Alternate Names	precore; HBe antigen; PreC; HBeAg; precore protein; external core antigen; p25

### Application Instructions

Assay Time	4.5 hours
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### Properties

Form	96 well
Storage instruction	Store components at 4°C or -20°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	HBcAg
Gene Full Name	Hepatitis B Virus Core antigen
Function	Self assembles to form an icosahedral capsid. Most capsid appear to be large particles with a 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 (By similarity). [UniProt]

#### Highlight

Related products:

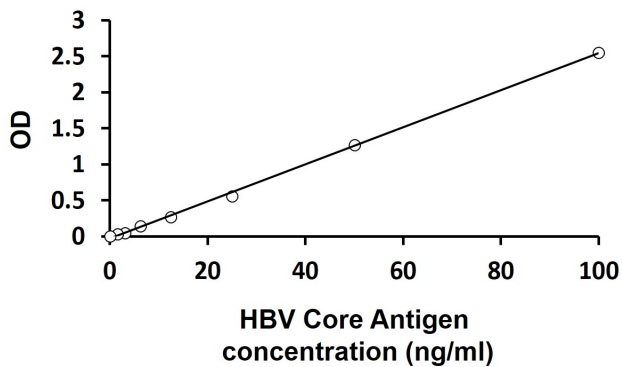
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## Images

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ARG82006 HBV Core antigen / HBcAg ELISA Kit standard curve image

ARG82006 HBV Core antigen / HBcAg ELISA Kit results of a typical standard run with optical density reading at 450 nm.