

## 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 |
|------------|-----------|

### 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

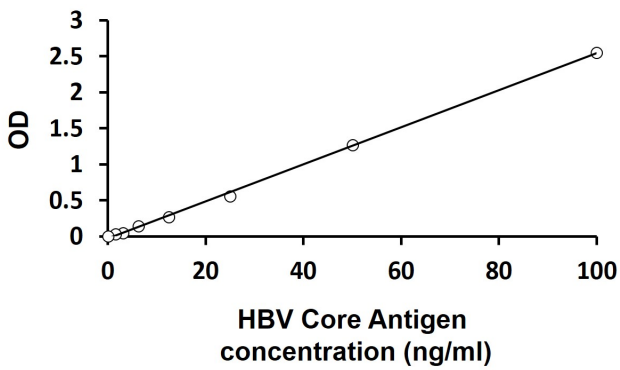
Related products:

[HBV antibodies](#); [HBV ELISA Kits](#);

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

#### Images



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.