# Human HBsAg Antibody Pair Set

**Catalog No.** E-KAB-0031 **Applications** ELISA
**Synonyms** Australia antigen

## Kit components & Storage

| Title | Specifications | Storage |
|---|---|---|
| Human HBsAg Capture Antibody | 1 vial, 100 μg | Store at -20℃ for one year. Avoid freeze / thaw cycles. |
| Human HBsAg Detection Antibody (Biotin) | 1 vial, 50 μL | Store at -20℃ for one year. Avoid freeze / thaw cycles. |

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Product Information

| Items | | Characteristic (E-KAB-0031) | |
|---|---|---|---|
| | | Human HBsAg Capture Antibody | Human HBsAg Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Native Protein | Native Protein |
| | Swissprot | / | |
| Product details | Reactivity | Human | Human |
| | Host | Mouse | Goat |
| | Conjugation | Unconjugated | Biotin |
| | Concentration | 0.5mg/mL | / |
| | Buffer | PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
| | Purify | Protein A | Protein A |
| | Specificity | Detects Human HBsAg in ELISAs. | |


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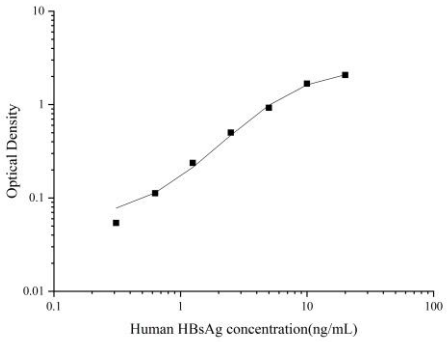
## Applications

Human HBsAg Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images |
|---|---|---|---|
| ELISA Capture | 0.5-4μg/mL | Human HBsAg Capture Antibody |  |
| ELISA Detection | 1:1000-1:10000 | Human HBsAg Detection Antibody (Biotin) | |



**Note:** This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

## Background

The hepatitis B virus is an important cause of acute and chronic liver disease. It is also the most common form of parenterally transmitted viral hepatitis. The HBV surface protein antigens (HBsAg) are comprised of three carboxyl co terminal HBs proteins termed large (LHBs), middle (MHBs) and small (SHBs, also called major) protein. LHBs and MHBs also share the highly hydrophobic, repetitive, membrane spanning S domain. In addition, MHBs has a 55 amino acid region called preS2. The virus is estimated to affect some 350 million people worldwide. Immunization against hepatitis B is an important component of preventative medicine and is offered to all children in approximately 30 countries. Hepatitis B virus (HBV) belongs to the Hepadnaviridae family and infection with HBV is usually more serious than infection with hepatitis A virus. In some individuals the infection is not cleared and followed by persistent intracellular viral carriage that can lead to the development of hepatocelular carcinomas. There are currently 400 million HBV carriers worldwide making HBV one of the most common human pathogens.



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