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**Antibody to Hepatitis B surface Antigen A**  
**GOAT POLYCLONAL**

**Catalog Number:** AB-471  
**Quantity:** 1 milliliter, 5 milliliters, 10 milliliters  
**Format:** 1 mg/ml in PBS

**Background:**

Hepatitis B is one of a few known non-retroviral viruses which employ reverse transcription as a part of its replication process. (HIV, a completely unrelated virus, also uses reverse transcription, but it is a retrovirus.) HBV invades the cell by binding to surface receptor and become internalized. The viral core particles then migrate to the hepatocyte nucleus and the partially double-stranded, relaxed circular genomes (RC-DNA) are repaired to form a covalently closed circular DNA (cccDNA), which is the template for viral genomic and sub-genomic RNAs by cellular RNA polymerase II. Of these, the pregenomic RNA (pgRNA) is selectively packaged into progeny capsids and is then reverse-transcribed into new RC-DNA. The core can either bud into the endoplasmic reticulum to be enveloped or exported from the cell or recycled back into the genome for conversion to cccDNA.

**Specificity and Preparation:**

Affinity-purified goat antibodies against the Native Ad/AyHBsAg antigens are immunoreactive with all Hepatitis B surface Antigen A (HBsAg A) antigens. Direct ELISA shows signal above cut-off at antibody levels of 100 ng/test and above. 1 mg/ml in PBS, was passed through a 0.2- $\mu$ m filter into a 50-ml sterile conic tube.

**Usage and Storage:**

Applications include Direct ELISA.  
Store at 4°C for one month or at -20°C for 2 years.