ADVANCED TARGETING SYSTEMS

6352 CORTE DEL ABETO, STE B
CARLSBAD, CA 92011 USA
01.858.642.1988 • WWW.ATSBIO.COM

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 an extracellular receptor which then internalizes. 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 RNA transcribed by RNA polymerase II. The pregenomic RNA is selectively packaged into progeny capsids and then reverse-transcribed into new RC-DNA. The core can bud into the endoplasmic reticulum for subsequent packaging into an envelope, be exported from the cell, or be 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. The concentration is 1 mg/ml in PBS. The antibody has been sterile filtered.

Usage and Storage:
Reported to be effective for direct ELISA.
Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store at 4°C for one month or at -20°C for 2 years.

To view protocol(s) for this and other products please visit: www.ATSbio.com/support/protocols