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**Recombinant Antibody to Hepatitis B Virus Surface Antigen**  
RECOMBINANT ANTIBODY

**Catalog Number:** AB-470  
**Quantity:** 2 micrograms, 10 micrograms, 1 milligram  
**Format:** PBS pH 7.4 and 0.09% sodium azide  
**Host:** *E. coli*

**Background:**

Hepatitis B Virus Surface Antigen (HBsAg) is the surface antigen of the Hepatitis-B-Virus (HBV). The capsid of a virus has different surface proteins from the rest of the virus. The antigen is a protein that binds specifically on one of these surface proteins. It is commonly referred to as the Australian Antigen. HBsAg is one of the first disease state markers to be detected in the serum of patients infected with the hepatitis B virus.

**Specificity and Preparation:**

Recombinant Antibody to Hepatitis B Virus Surface Antigen (HBsAg) is produced in *E. coli*. It is a non-glycosylated, polypeptide chain containing a hexahistidine tag and having a molecular weight of 43 kDa. HBsAg is purified by proprietary chromatographic techniques. Purity is greater than 95.0% as determined by RP-HPLC and SDS-PAGE. The material is supplied in 1 x PBS pH 7.4 and 0.09% azide.

**Usage and Storage:**

Working dilutions must be determined by end user.  
Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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