



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Rabbit Anti Hepatitis B Surface Antigen (ad/ay)

**Catalog No.**  
MD-05-0190

**Species**  
Virus

**Isotype**  
Rabbit IgG

## Background

The “core” ORF of the hepatitis B genome encodes two related yet functionally distinct proteins: the hepatitis B core protein, a major component of the nucleocapsid, and the hepatitis B e-antigen (HBeAg), a secreted protein. The HBeAg gene, so named due to its early appearance during acute HB infection, encodes a hydrophobic transmembrane domain, resulting in translation/ translocation of HBeAg to the lumen of the ER. There, a signal peptidase removes 19 of the 29 residues of HBeAg, preventing it from forming into core particles. The presence of HBeAg in serum indicates active viral replication in hepatocytes, and associates with an increased risk of hepatocellular carcinoma.

## Applications

**Table Summary of antibody applications and working conditions**

<b>Options</b> <b>Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
ELISA	.			
Western Blotting			.	
Immunohistology			.	
Immunoblotting			.	
RIA			.	
Immunofluorescence staining			.	
Neutralization			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Specificity***

This product is monospecific, reacts only with Hepatitis B surface antigen including the pre-S1 epitope. Non-reactive with normal human serum.

### ***Formulation***

Neat liquid with 0.1% Sodium Azide as preservative

### ***Storage***

Short-term (up to 14 days) store at 2-8°C. Long term, aliquot and store at -20°C. **Avoid multiple freeze/thaw cycles.**

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