

BP2029HRP**Polyclonal Antibody to Hepatitis B Surface Antigen / HBsAg (ad/ay) - HRP****Alternate names:**

HBV surface antigen, Hepatitis B Virus

Quantity:

1 ml

Concentration:

1-2 mg/ml (OD280 nm, E0.1% = 1.4)

Background:

Hepatitis B Virus (HBV) infection induces a disease state which manifests itself in a variety of ways, characterized by the extent of liver damage, inflammation and viral persistence. HBV infection is also associated with a 100 fold increased risk of hepatocellular carcinoma and currently infects over 250 million people worldwide. HBV has a partially double stranded 3.2 kilobase DNA genome which contains four open reading frames. One of these encodes a 154 amino acid protein called the HBx protein. HBx has been shown to be a transcriptional transactivator of both viral and cellular promoters. Lacking a DNA binding domain and nuclear localization signal, HBx is believed to exert transcriptional activity through protein protein interaction.

Host:

Rabbit

Immunogen:

Hepatitis B surface antigen purified from human serum. Mixture of subtypes ad & ay.

Format:**State:** Liquid purified Ig fraction.**Buffer System:** PBS containing 10 mg/ml BSA as stabilizer and 0.002% Thimerosal as preservative.**Label:** HRP – Purified IgG fraction covalently coupled to a highly purified preparation of Horseradish Peroxidase (RZ>3). Care is taken to ensure adequate conjugation while preserving maximum enzyme activity. Free enzyme is removed**Molar Ratio:** HRP: IgG substitution is 2-3**Applications:**

Suitable for use in ELISA.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Monospecific, reacts only with Hepatitis B surface antigen including the pre-S1 epitope.

Non-reactive with normal Human serum.

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf life: one year from despatch.

Caution:

Use of Sodium Azide as a preservative will substantially inhibit the enzyme activity of horseradish peroxidase.