**Product Overview:** Monoclonal Antibody to Hepatitis B Surface Antigen.

**Antigen Description:** 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.

**Specificity:** This antibody reacts with HBsAg subtype ad/ay

**Immunogen:** Hepatitis B Surface Antigen

**Clone:** 5C82E12

**Isotype:** IgG1

**Host animal:** Hybridization of P3x63-Ag 9.653 myeloma cells with spleen cells from Balb/c mouse

**Source:** Mouse ascites

**Format:** Purified, liquid

**Application:** HBsAg quantitative assays by EIA

**Purification:** DEAE chromatography; >95% by HPLC and SDS-PAGE

**Affinity Constant:** Not determined

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**Introduction:** Hepatitis B is a DNA Virus of the hepadnaviridae family of viruses. It replicates within infected liver cells (hepatocytes).

**Keywords:** HBV; HBsAg; Hep B surface antigen; Hepatitis B surface antigen; Hepatitis B Virus major surface antigen; Hepatitis B virus S antigen; Large envelope protein; Large surface protein; LHB; Major surface antigen; Hepadnaviridae; Orthohepadnavirus; Hepatitis B virus

**Background**

**Concentration:** 4.05 mg/mL (OD280 nm, E0.1% = 1.40)

**Buffer:** 0.015M potassium phosphate buffer, 0.85% NaCl, 0.05% NaN3 pH=7.2

**Storage:** 2°C-8°C for 1 year. Store at -20°C for long term.

**References**