

Product datasheet for **SM3109P**

Hepatitis B Surface Antigen / HBsAg Mouse Monoclonal Antibody [Clone ID: HB3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HB3
Applications:	ELISA, IF
Recommended Dilution:	ELISA. Immunocytochemistry.
Reactivity:	Hepatitis B Virus
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified HbsAg from Human plasma.
Specificity:	The antibody HB3 recognizes following Hepatitis B virus subtypes: ayw2, ayw3, ayw4, ayr, adw2, adw4, adrq+, adrq-. Specificity of the antibody HB3 was verified by ELISA on panel of virus subtypes identified on International Workshop on HBsAg Subtypes (Paris, April 1975). The antibody HB3 does not cross-block with the antibody HB5.
Formulation:	Phosphate Buffered Saline (PBS), pH~7.4 State: Purified State: Liquid purified Ig fraction from Ascites (> 95% by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	Precipitation Methods and Ion Exchange Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.



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Background:

HBsAg (Hepatitis B surface antigen) is a marker of infectivity. Its presence indicates either acute or chronic HBV infection.

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.

Synonyms:

HBV surface antigen, Hepatitis B Virus