

Product Specification Sheet

**Hepatitis B surface Antigen (HBsAg, Ayw)**

□ Cat. # HBA36-N-25 Hepatitis Surface Antigen subtype Ayw (HBsAg Ayw), Recombinant (s. cerevisae), purified **SIZE:25 ug**

Hepatitis B virus (HBV) is an enveloped, double-stranded DNA virus belonging to the Hepadnaviridae family and is recognized as the major cause of blood transmitted hepatitis together with hepatitis C virus (HCV). Infection with HBV induces a spectrum of clinical manifestations ranging from mild, in apparent disease to fulminant hepatitis, severe chronic liver disease, which in some cases can lead to cirrhosis and carcinoma of the liver. Classification of a hepatitis B infection requires the identification of several serological markers expressed during three phases (incubation, acute and convalescent) of the infection. Now several diagnostic tests are used for screening, clinical diagnosis and management of the disease.

Hepatitis B surface antigen (HBsAg) is an important viral envelope protein, which appears shortly after infection and is a key serological marker for detection and diagnosis of HBV. Clearance during treatment shows recovery and development of neutralizing antibodies (anti-HBs) occurs in 90% of the patients. Due to the introduction of hepatitis B vaccination programs, the detection of anti-HBs has become important method for monitoring of recipients upon vaccination with synthetic and natural HBsAg. The absence of anti-HBs indicates susceptibility to HBV infection. For this, screening for anti-HBs in high-risk populations is recommended for identifying individuals who may benefit from vaccination.

HBsAg has antigenic heterogeneity involving two pairs of sub specific determinants, d/y and w/r, which allow the following combinations: adw, ayw, adr, ayr. The adw serotype is commonly referred to as the Australian Antigen.

**Source of Antigen**

HBsAg (subtype ay) was produced in *Saccharomyces cerevisiae*, (~24 kDa, >95%) and fused with a his tag. Purified protein is supplied in 7.5mM phosphate buffer pH 7.2, 75mM NaCl and 50% glycerol.. in liquid or lyophilized in the same buffer (lot sp. concn is supplied on the vial). Reconstitute powder in water at 1 mg/ml.

**Recommended Usage**

ELISA, Western

**Storage:** at 4°C for 1 week, long term :Store at -20 C or below in suitable aliquots. prevent freeze thaw cycles.

**Related material available from ADI**

4100	Hepatitis B Surface Antigen (HBsAg) ELISA kit, Quantitative
4200 A	Anti-Hepatitis B Surface Antigen (anti-HBsAg) ELISA kit,
4210	Mouse Anti-Hepatitis B Surface Antigen (anti-HBsAg) ELISA kit,
4220-AHB	Anti-Hepatitis B Surface Antigen (anti-HBsAg) ELISA kit,
4230-AHB-R,	Anti-Hepatitis B Surface Antigen (anti-HBsAg) rapid test strips
AB-15010	Mouse Anti-Hepatitis B Virus (AD & AY Antigens) IgG
AB-15610	Mouse Anti-Hepatitis C Virus NS3 IgG
AB-15810	Mouse Anti-Hepatitis D Virus IgG
AB-16310	Anti-Hepatitis B Surface Antigen A IgG
HBA11-A	Anti-Hepatitis Surface Antigen (HBsAg) IgG, aff pure
HBA12- M	Mouse anti-Hepatitis Surface Antigen (HBsAg) (clone 1)
HBA13- M	Mouse anti-Hepatitis Surface Antigen (HBsAg) (clone 2)
HBA14-M	Mouse anti-Hepatitis Surface Antigen (HBsAg) (clone 3)
HBA15-A	Anti-Hepatitis Surface Antigen (HBsAg) IgG, aff pure
HBA25-N-100	Hepatitis Surface Antigen (HBsAg), Native, purified
HBA27-N-25	Hepatitis Surface Antigen subtype Adw (HBsAg Adw), Recombinant (P. Pastoris), purified
HBA27-P-142S	Hepatitis Surface Antigen subtype Adw Mutant P-142-S (HBsAg Adw mutant), Recombinant (P. Pastoris), purified
HBA27-Q-129L	Hepatitis Surface Antigen subtype Adw Mutant Q-129-L (HBsAg Adw mutant), Recombinant (P. Pastoris), purified
HBA28-N-100	Hepatitis Surface Antigen subtype Ay (HBsAg Ay), Native (human plasma) purified
HBA29-N-25	Hepatitis Surface Antigen subtype Ayw (HBsAg Ayw), Recombinant (P. Pastoris), purified
HBA30-N-50	Hepatitis Surface Antigen subtype Adr (HBsAg Adr), Recombinant (S. Cerevisae), purified
HBA31-N-25	Hepatitis Surface Antigen subtype Adr (HBsAg Adr), Recombinant (CHO), purified
HBA35-N-500	Hepatitis Surface Antigen (HBsAg), Recombinant (E. coli), purified
HBA36-N-25	Hepatitis Surface Antigen subtype Ayw (HBsAg Ayw), Recombinant (s. cerevisae), purified

\*This product is for In vitro research use only.

HBA36-N-25

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