



# Recombinant HBV Surface Antigen (subtype ayw) [His] (DAG3943)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Recombinant Hepatitis B Surface Antigen (ayw), His-Tagged
<b>Species</b>	HBV
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE
<b>Conjugate</b>	His
<b>Applications</b>	WB, ELISA, Lateral flow
<b>Buffer</b>	7.5mM phosphate buffer pH7.2, 75mM NaCl and 50% glycerol
<b>Preservative</b>	None
<b>Storage</b>	2-8°C short term, -20°C long term

## BACKGROUND

<b>Introduction</b>	Hepatitis B Virus (HBV) infection induces a disease state characterised by liver damage, inflammation and viral persistence. Infection also increases the risk of hepatocellular carcinoma. HBV belongs to the Hepadnaviridae family of viruses. Its genome consists of partially double stranded circular DNA. The DNA is enclosed in a nucleocapsid, or core antigen (HBcAg), which is surrounded by a spherical envelope (surface antigen or HBsAg). The core antigen shares its sequence with the e antigen (HBeAg) but no cross reactivity between the two proteins has been observed. The HBV genome also encodes a DNA polymerase that also acts as a reverse transcriptase.
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