

Datasheet: PIP002

**BATCH NUMBER 162611**

<b>Description:</b>	RECOMBINANT HEPATITIS B SURFACE ANTIGEN AD
<b>Name:</b>	HEPATITIS B SURFACE ANTIGEN AD
<b>Other names:</b>	HBsAg
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Viral
<b>Product Form</b>	Recombinant Hepatitis B surface antigen AD
<b>Preparation</b>	Recombinant Hepatitis B surface antigen AD expressed in <i>Saccharomyces cerevisiae</i> and purified via ionic exchange chromatography, size exclusion chromatography and sterile filtration.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Total protein concentration 0.5 mg/ml
<b>Product Information</b>	<b>Recombinant Hepatitis surface antigen</b> is a <i>S. cerevisiae</i> derived preparation of the AD subtype surface antigen of the Hepatitis B virus (HBsAg), a protein component of the viral

envelope predominantly expressed in the cytoplasm of infected hepatocytes. HBsAg has antigenic heterogeneity; two pairs of the subtypes d/y and w/r lead to antigenic combinations of adw, ayw, adr, and ayr.

Hepatitis B infection is normally diagnosed using serological tests that detect HBsAg. If HBsAg is detected in the blood for longer than six months, chronic hepatitis B is diagnosed.

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<b>Protein Molecular Weight</b>	24 kDa
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<b>Purity</b>	~95% by SDS PAGE
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<b>References</b>	1. Cheng, S. <i>et al.</i> (2017) Hepatitis B Surface Antigen Promotes the Invasion of Hepatitis B Virus-Related Hepatocellular Carcinoma Cells by Upregulation of Toll-Like Receptor 2. <a href="#">Viral Immunol. 30 (3): 232-9.</a>
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<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10258 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PIP002">https://www.bio-rad-antibodies.com/SDS/PIP002</a> 10258
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<b>Regulatory</b>	For research purposes only
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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