

Datasheet: OBT0915

**BATCH NUMBER 162122**

<b>Description:</b>	RECOMBINANT HEPATITIS B SURFACE ANTIGEN AY
<b>Name:</b>	HEPATITIS B SURFACE ANTIGEN AY
<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 Protein - liquid
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	1.0 mg/ml

### Product Information

**Recombinant Hepatitis surface antigen** preparation is a recombinant surface antigen, AY subtype of the Hepatitis B virus. It is produced using a *Saccharomyces cerevisiae* expression system.

Four major serotypes of the hepatitis B virus are identified according to variability of the surface antigen, defined by a common 'a' determinant and mutually exclusive determinant

pairs 'd/y' and 'w/r'. Hence, the subtypes are adw,adr, ayw and ayr. Further subdivision of these major subtypes has identified additional minor subtypes of the virus ([Magnius & Norder 1995](#)).

<b>Protein Molecular Weight</b>	24 kDa
<b>Purity</b>	~95% by SDS PAGE
<b>ELISA</b>	OBT0915 may be used in a sandwich ELISA as a standard with <a href="#">4940-1404</a> as a capture antibody and <a href="#">4940-1484</a> as a detection antibody.
<b>References</b>	1. Kee, G.S. <i>et al.</i> (2010) Exploiting the intracellular compartmentalization characteristics of the <i>S. cerevisiae</i> host cell for enhancing primary purification of lipid-envelope virus-like particles. <a href="#">Biotechnol Prog. 26 (1): 26-33.</a>
<b>Further Reading</b>	1. Magnius, L.O. & Norder, H. (1995) Subtypes, genotypes and molecular epidemiology of the hepatitis B virus as reflected by sequence variability of the S-gene. <a href="#">Intervirology. 38 (1-2): 24-34.</a>
<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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10209 available at: <a href="https://www.bio-rad-antibodies.com/SDS/OBT0915">https://www.bio-rad-antibodies.com/SDS/OBT0915</a> 10209
<b>Regulatory</b>	For research purposes only

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Printed on 23 May 2025