

Datasheet: OBT0915

BATCH NUMBER 158740

Description:	RECOMBINANT HEPATITIS B SURFACE ANTIGEN AY
Name:	HEPATITIS B SURFACE ANTIGEN AY
Other names:	HBsAg
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	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.

	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.

Target Species	Viral
Product Form	Recombinant Protein - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	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](#)).

Protein Molecular Weight	24 kDa
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Purity	~95% by SDS PAGE
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ELISA	OBT0915 may be used in a sandwich ELISA as a standard with 4940-1404 as a capture antibody and 4940-1484 as a detection antibody.
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References	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. Biotechnol Prog. 26 (1): 26-33.
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Further Reading	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. Intervirology. 38 (1-2): 24-34.
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Storage	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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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10209 available at: https://www.bio-rad-antibodies.com/SDS/OBT0915 10209
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Regulatory	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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