Datasheet: OBT0915

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 adentified 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).
Molecular Weight	24 kD
Purity	~95% by SDS PAGE

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.
References	1. Kee, G.S. *et al.* (2010) Exploiting the intracellular compartmentalization characteristics of the *S. cerevisiae* host cell for enhancing primary purification of lipid-envelope virus-like particles. Biotechnol Prog. 26 (1): 26-33.
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.
Storage	Store at +4^{o}C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10209 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf
Regulatory	For research purposes only

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