

Datasheet: PIP002

BATCH NUMBER 152216

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| Description: | RECOMBINANT HEPATITIS B SURFACE ANTIGEN AD |
| Name: | HEPATITIS B SURFACE ANTIGEN AD |
| 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.

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| Target Species | Viral |
| Product Form | Recombinant Hepatitis B surface antigen AD |
| Preparation | Recombinant Hepatitis B surface antigen AD expressed in <i>Saccharomyces cerevisiae</i> |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | Total protein concentration 0.5 mg/ml |

Product Information **Recombinant Hepatitis surface antigen** is a *S. cerevisiae* 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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| Protein Molecular Weight | 24 kDa |
| Purity | ~95% by SDS PAGE |
| References | 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. Viral Immunol. 30 (3): 232-9. |
| 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. |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10258 available at: https://www.bio-rad-antibodies.com/SDS/PIP00210258 |
| 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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