

Datasheet: PIP002

**BATCH NUMBER 163154**

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| <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.<br>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><br>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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