

## Datasheet: HCA351

|                      |                                |
|----------------------|--------------------------------|
| <b>Description:</b>  | HUMAN ANTI BRENTUXIMAB VEDOTIN |
| <b>Specificity:</b>  | BRENTUXIMAB VEDOTIN            |
| <b>Other names:</b>  | Adcetris                       |
| <b>Format:</b>       | Purified                       |
| <b>Product Type:</b> | Monoclonal Antibody            |
| <b>Clone:</b>        | AbD39655ia                     |
| <b>Isotype:</b>      | IgG1                           |
| <b>Quantity:</b>     | 0.1 mg                         |

## Product Details

| <b>Applications</b>                   | <p>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 <a href="http://www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.</p> <table> <tr> <th></th><th>Yes</th><th>No</th><th>Not Determined</th><th>Suggested Dilution</th></tr> <tr> <td>ELISA</td><td>■</td><td></td><td></td><td></td></tr> </table> <p>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.</p> |    |                |                    |  | Yes | No | Not Determined | Suggested Dilution | ELISA | ■ |  |  |  |
|---------------------------------------|---|----|----------------|--------------------|--|-----|----|----------------|--------------------|-------|---|--|--|--|
|                                       | Yes   | No | Not Determined | Suggested Dilution |  |     |    |                |                    |       |   |  |  |  |
| ELISA                                 | ■   |    |                |                    |  |     |    |                |                    |       |   |  |  |  |
| <b>Product Form</b>                   | Human IgG1 antibody (kappa light chain) selected from the HuCAL phage display library and expressed in a human cell line. This antibody is supplied as a liquid.  |    |                |                    |  |     |    |                |                    |       |   |  |  |  |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A   |    |                |                    |  |     |    |                |                    |       |   |  |  |  |
| <b>Source</b>                         | HKB-11  |    |                |                    |  |     |    |                |                    |       |   |  |  |  |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |    |                |                    |  |     |    |                |                    |       |   |  |  |  |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )  |    |                |                    |  |     |    |                |                    |       |   |  |  |  |
| <b>Approx. Protein Concentrations</b> | Antibody concentration 0.5 mg/ml  |    |                |                    |  |     |    |                |                    |       |   |  |  |  |
| <b>Immunogen</b>                      | Brentuximab vedotin   |    |                |                    |  |     |    |                |                    |       |   |  |  |  |

**Specificity**

**Human Anti-Brentuximab vedotin Antibody, clone AbD39655ia** is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug brentuximab, both alone and as the antibody drug conjugate (ADC), brentuximab vedotin.

A pair of antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody is recommended as the detection antibody, paired with Anti-Brentuximab vedotin Antibody in monovalent Fab format, clone AbD39649ca ([HCA349](#)) as the capture antibody.

Clone AbD39655ia is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 0.7 nM and is one of three antibodies with different affinities offered for ADA assays. Antibody [HCA350](#) has affinity 6 nM and [HCA352](#) has affinity 1.4 nM.

Brentuximab vedotin (Adcetris) is a chimeric mouse/human IgG1 kappa ADC, approved by the FDA for the treatment of Hodgkin's lymphoma (HL) and systemic anaplastic large cell lymphoma (ALCL). The brentuximab antibody selectively targets tumor cells expressing the cell membrane protein CD30, and delivers the conjugated toxin, monomethyl auristatin E (MMAE). Once inside the cell the MMAE is released from the antibody by proteolytic cleavage and disrupts the microtubule network inducing cell cycle arrest and apoptosis of the malignant cells, thereby preventing tumor growth and proliferation.

[View a summary of all brentuximab vedotin antibodies.](#)

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**Affinity**

The intrinsic affinity of the monovalent form of Human anti Brentuximab antibody, clone AbD39655ia is  $K_D = 0.7$  nM as measured by real time, label free molecular interaction analysis on immobilized Brentuximab Vedotin.

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**ELISA**

Human anti Brentuximab Vedotin antibody, clone AbD39655ia can be used as the detection antibody for Brentuximab Vedotin in a bridging ELISA to measure free drug. It is also suitable as a surrogate positive control or calibrator in an anti-drug antibody assay. .

Protocol: [PK bridging ELISA](#).

Protocol: [ADA bridging ELISA](#).

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and

non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See [bio-rad.com/en-us/trademarks](https://www.bio-rad.com/en-us/trademarks) for details.  
Adcentris is a trademark of Seattle Genetics.

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|--------------------------------------|---|
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA351">https://www.bio-rad-antibodies.com/SDS/HCA351</a>  |
| <b>Licensed Use</b>                  | For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad. |
| <b>Regulatory</b>                    | For research purposes only  |
| <b>Technical Advice</b>              | Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a> .   |

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## Related Products

### Recommended Useful Reagents

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)  
[HISPEC ASSAY DILUENT \(BUF049A\)](#)  
[HUMAN ANTI BRENTUXIMAB VEDOTIN \(HCA349\)](#)  
[HUMAN ANTI BRENTUXIMAB VEDOTIN \(HCA350\)](#)  
[HUMAN ANTI BRENTUXIMAB VEDOTIN \(HCA352\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](https://www.bio-rad-antibodies.com/technical-support)

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)  
'M442447:250528'

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