

## Datasheet: HCA386

**BATCH NUMBER 174224**

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|----------------------|------------------------|
| <b>Description:</b>  | HUMAN ANTI AFLIBERCEPT |
| <b>Specificity:</b>  | AFLIBERCEPT            |
| <b>Other names:</b>  | Eylea, Zaltrap         |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | Monoclonal Antibody    |
| <b>Clone:</b>        | AbD34644ia             |
| <b>Isotype:</b>      | IgG1                   |
| <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 | ■   |    |                |                    |

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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|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                      | Aflibercept                                                                                                                                                      |

**Specificity** **Human Anti-Aflibercept Antibody, clone AbD34644ia** is a recombinant antibody that specifically recognizes the fusion protein drug aflibercept as well as the vascular endothelial growth factor receptor 1 (VEGFR1). It does not recognize vascular endothelial growth factor receptor 2 (VEGFR2). The antibody binds to free aflibercept and can be used to measure free aflibercept or aflibercept biosimilars in patient samples.

Clone AbD34644ia is a fully human recombinant monoclonal antibody with IgG1 isotype that can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. It is recommended as the detection antibody paired with the Human anti-Aflibercept Antibody, clone AbD38778da ([HCA390](#)) as the capture reagent.

Aflibercept (Eylea, Zaltrap) is a recombinant fusion protein consisting of the extra-cellular domain of human VEGF receptors 1 and 2, fused to the Fc portion of human IgG1. It is used to treat the 'wet' form of age-related macular degeneration (AMD) and impaired vision due to macular oedema. It is also used in the treatment of metastatic colorectal cancer in combination with 5-fluorouracil, leucovorin and irinotecan in patients previously treated with an oxaliplatin-containing chemotherapy. Aflibercept binds to circulating VEGF-A and VEGF-B to inhibit their ability to promote angiogenesis.

[View a summary of all anti aflibercept antibodies](#)

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| <b>Affinity</b> | The intrinsic affinity of the monovalent form of Human anti Aflibercept antibody, clone AbD34644ia is $K_D = 11$ nM as measured by real time, label free molecular interaction analysis on immobilized Aflibercept |
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| <b>ELISA</b> | Human anti Aflibercept antibody, clone AbD34644ia can be used in an indirect ELISA or as detection antibody for Aflibercept in a bridging ELISA together with <a href="#">HCA390</a> as the capture reagent. |
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Protocol: [PK Bridging ELISA](#)

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

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| <b>Guarantee</b> | 12 months from date of despatch |
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| <b>Acknowledgements</b> | 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 <a href="#">bio-rad.com/en-us/trademarks</a> for details.<br>Eylea is a trademark of Regeneron/Sanofi.<br>Zaltrap is a trademark of Regeneron/Bayer Healthcare. |
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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/HCA386">https://www.bio-rad-antibodies.com/SDS/HCA386</a> |
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| <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> .                                                                                                                     |

## Related Products

### Recommended Useful Reagents

[HUMAN ANTI AFLIBERCEPT \(HCA387\)](#)

[HUMAN ANTI AFLIBERCEPT \(HCA388\)](#)

[HUMAN ANTI AFLIBERCEPT \(HCA389\)](#)

[HUMAN ANTI AFLIBERCEPT \(HCA390\)](#)

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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

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