

## Datasheet: HCA386

<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.

<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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**Affinity**

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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**ELISA**

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 [HCA390](#) as the capture reagent.

Protocol: [PK 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](http://bio-rad.com/en-us/trademarks) for details.

Eylea is a trademark of Regeneron/Sanofi.

Zaltrap is a trademark of Regeneron/Bayer Healthcare.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA386>

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**Licensed Use** For *in vitro* research purposes and for commercial applications for the provision of *in vitro* 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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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## Related Products

### Recommended Useful Reagents

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

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

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

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

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

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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://bio-rad-antibodies.com/datasheets)

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