

## Datasheet: HCA388

<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>	AbD38771ia
<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 (lambda 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 AbD38771ia** is a recombinant antibody that specifically recognizes the fusion protein drug aflibercept at the region of the fusion of VEGFR with the Fc portion of human IgG1. It does not inhibit the binding of aflibercept to its target, the vascular endothelial growth factor (VEGF); it binds to both free aflibercept and aflibercept bound to its target VEGF and can be used to measure total aflibercept very specifically.

Clone AbD38771ia is a fully human recombinant monoclonal antibody with IgG1 isotype that can be used to develop a pharmacokinetic (PK) bridging assay to measure total drug. It is recommended as the detection antibody paired with the Human anti-Aflibercept Antibody, clone AbD38720da ([HCA389](#)) 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 AbD38771ia is  $K_D = 124$  nM as measured by real time, label free molecular interaction analysis on immobilized Aflibercept

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**ELISA** Human anti Aflibercept antibody, clone AbD38771ia can be used in an indirect ELISA or as detection antibody for Aflibercept in a bridging ELISA together with [HCA389](#) 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** Material Safety Datasheet documentation #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/HCA388>  
10040

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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 \(HCA386\)](#)

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

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

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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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