

## Datasheet: HCA389

<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>	AbD38720da
<b>Isotype:</b>	HuCAL Fab monovalent
<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.

### Product Form

A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a Strep tag at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

### Preparation

Metal chelate affinity chromatography

### Source

*E. coli*

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

**Immunogen**

Aflibercept

**Specificity**

**Human Anti-Aflibercept Antibody, clone AbD38720da** is a recombinant antibody that specifically recognizes the fusion protein drug aflibercept as well as the vascular endothelial growth factor receptor 2 (VEGFR2). It does not recognize vascular endothelial growth factor receptor 1 (VEGFR1). 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 and its biosimilars in bioanalytical assays.

A pair of anti-aflibercept antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure total drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, paired with the Human Anti-Aflibercept Antibody, clone AbD38771ia ([HCA388](#)) as the detection antibody.

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](#)

**Affinity**

The intrinsic affinity of the monovalent form of Human anti Aflibercept antibody, clone AbD38720da is  $K_D = 1$  nM as measured by real time, label free molecular interaction analysis on immobilized Aflibercept

**ELISA**

Human anti Aflibercept antibody, clone AbD38720da can be used in an indirect ELISA. It can also be used as the capture antibody for aflibercept in a PK bridging ELISA together with [HCA388](#) as the detection antibody.

Protocol: [PK Bridging ELISA](#)

**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.

**Guarantee**

12 months from date of despatch

**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/HCA389>  
10040

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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](#).  
This antibody contains a Strep-tag and will react with streptavidin.

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## Related Products

### Recommended Useful Reagents

[HUMAN ANTI AFLIBERCEPT \(HCA386\)](#)

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

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

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

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