

## Datasheet: HCA182

**BATCH NUMBER 164917**

<b>Description:</b>	HUMAN ANTI BEVACIZUMAB
<b>Specificity:</b>	BEVACIZUMAB
<b>Other names:</b>	AVASTIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD17976
<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 (lambda light chain) selected from the HuCAL phage display library, expressed in *E. coli*. The antibody is tagged with a V5 tag and a double extended Strep-tag. This antibody is supplied as a liquid.

### Preparation

StrepTactin affinity chromatography.

### Buffer Solution

Phosphate buffered saline.

### Preservative Stabilisers

0.01% Thiomersal.

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml.

### Immunogen

Bevacizumab

**Specificity** **Human Anti-Bevacizumab Antibody**, clone AbD17976 is a paratope specific, recombinant, anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug bevacizumab and inhibits the binding of the drug to its target, vascular endothelial growth factor A (VEGF-A). The antibody can be used to measure the levels of free bevacizumab and biosimilar products using bioanalytical assays.

A pair of anti-bevacizumab antibodies can be used to develop a pharmacokinetic (PK) bridging ELISA to measure free drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, paired with Anti-Bevacizumab Antibody in full immunoglobulin format, clone AbD16748\_hlgG1 ([HCA184P](#)) as the detection antibody.

Bevacizumab (reference product branded as Avastin) is a humanized monoclonal antibody (IgG1/kappa) that inhibits angiogenesis by binding to VEGF-A. VEGF-A is a potent stimulator of angiogenesis of both normal and cancerous cells, and acts as a regulator of vasculogenesis. Bevacizumab is used to treat various cancers, including colorectal, lung, breast, glioblastoma, kidney and ovarian.

[View a summary of all Anti-Bevacizumab Antibodies.](#)

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**Affinity** The monovalent intrinsic affinity of this antibody is  $K^D=0.4$  nM as measured by real time, label-free molecular interaction analysis on immobilized bevacizumab.

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**ELISA** This product may be used in an indirect ELISA or as a capture antibody in a sandwich ELISA together with [HCA184P](#) as the detection reagent.  
Protocol: [PK bridging ELISA to measure free drug.](#)

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**References**

1. McFarland, T.J. *et al.* (2015) BEVACIZUMAB LEVELS IN BREAST MILK AFTER LONG-TERM INTRAVITREAL INJECTIONS. [Retina. 35 \(8\): 1670-3.](#)
2. Iwamoto, N. *et al.* (2018) Antibody drug quantitation in coexistence with anti-drug antibodies on nSMOL bioanalysis. [Anal Biochem. 540-541: 30-7.](#)

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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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Avastin is a trademark of Genentech, Inc.

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**Health And Safety Information** Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA182>  
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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 Secondary Antibodies

Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...) [HRP](#)

Mouse Anti Viral V5-TAG (MCA1360...) [Biotin](#), [HRP](#)

### Recommended Useful Reagents

[HUMAN ANTI BEVACIZUMAB \(HCA184\)](#)

[HUMAN ANTI BEVACIZUMAB \(HCA185\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK001P\)](#)

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'M406417:220924'

**Printed on 19 Jan 2024**

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