# Datasheet: HCA182G

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| **Description:** | HUMAN ANTI BEVACIZUMAB |
| **Specificity:** | BEVACIZUMAB |
| **Other names:** | AVASTIN |
| **Format:** | Purified |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | AbD17976 |
| **Isotype:** | HuCAL Fab monovalent |
| **Quantity:** | 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.

| | 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 1.0 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_hIgG1 (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.

**Affinity**

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

**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

**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.

**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**



**Health And Safety Information**

Material Safety Datasheet documentation #10094 available at:
10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf

**Licensed Use**

For in vitro research purposes and for commercial applications for the provision of in vitro

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| | 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. |
| **Regulatory** | For research purposes only |
| **Technical Advice** | Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual |

## Related Products

### Recommended Secondary Antibodies

Mouse Anti Viral V5-TAG (MCA1360...) Alk. Phos., Biotin, HRP

### Recommended Useful Reagents

HUMAN ANTI BEVACIZUMAB (HCA184)
HUMAN ANTI BEVACIZUMAB (HCA185)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK001P)


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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

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