

## Datasheet: HCA184G

**BATCH NUMBER 148601**

<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>	AbD16748_hIgG1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	Antibody concentration 1.0 mg/ml
<b>Immunogen</b>	Bevacizumab
<b>Specificity</b>	<b>Human Anti-Bevacizumab Antibody, clone AbD16748_IgG1</b> is a paratope-specific,

recombinant anti-idiotypic antibody that specifically recognizes the humanized 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 bevacizumab and biosimilars in serum from patients.

A pair of anti-bevacizumab antibodies can be used to develop a pharmacokinetic (PK) bridging ELISA to measure free drug. This antibody is recommended as the detection antibody, paired with Anti-Bevacizumab Antibody in monovalent Fab format, clone AbD17976 ([HCA182](#)) as the capture 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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<b>Purity</b>	97.8% (capillary electrophoresis, reducing conditions).
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<b>Affinity</b>	The monovalent intrinsic affinity of this antibody was measured as $K_D=2.1\text{nM}$ by real time, label-free molecular interaction analysis on immobilized Bevacizumab.
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<b>ELISA</b>	This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA, when conjugated to HRP, together with <a href="#">HCA182</a> as the capture reagent. Protocol: <a href="#">PK bridging ELISA to measure free drug</a> This antibody is fully human and can be used as a reference standard in an ADA assay. Protocol: <a href="#">ADA bridging ELISA</a>
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<b>References</b>	1. Kashiwagi, N. <i>et al.</i> (2017) Method for measuring anti-drug antibody <a href="#">US Patent Application US20170315118A1</a>
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<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.  Avastin is a trademark of Genentech, Inc.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA184G">https://www.bio-rad-antibodies.com/SDS/HCA184G</a>
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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

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

[HUMAN ANTI BEVACIZUMAB \(HCA182\)](#)

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

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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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