

## Datasheet: HCA185G

**BATCH NUMBER 1710**

<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_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 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>	Total protein concentration 1.0 mg/ml
<b>Immunogen</b>	Bevacizumab
<b>Specificity</b>	<b>Human Anti-Bevacizumab Antibody, clone AbD17976_hIgG1</b> is an affinity-matured,

inhibitory, anti-idiotypic antibody that recognizes the humanized monoclonal antibody drugs bevacizumab and ranibizumab, and their biosimilar products.

Clone AbD17976\_hIgG1 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a positive control or calibrator in an anti-drug antibody (ADA) assay.

This Anti-Bevacizumab Antibody cross-reacts with the drug ranibizumab (Lucentis). Ranibizumab is a humanized Fab fragment antibody (VH3-23/kappa1), originating from the same parental mouse antibody as bevacizumab; it has 4 amino acid exchanges in the heavy chain and 1 amino acid exchange in the light chain compared to bevacizumab.

Bevacizumab (trade name Avastin) is a humanized monoclonal antibody (IgG1/kappa) that inhibits angiogenesis by binding to vascular endothelial growth factor alpha (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>Affinity</b>	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.
<b>ELISA</b>	This product is suitable for use in direct ELISA applications. This antibody is fully human and can be used as a reference standard in an ADA assay. Protocol: <a href="#">ADA bridging ELISA</a>
<b>References</b>	1. Iwamoto, N. <i>et al.</i> (2018) Antibody drug quantitation in coexistence with anti-drug antibodies on nSMOL bioanalysis. <a href="#">Anal Biochem. 540-541: 30-7.</a>
<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.
<b>Guarantee</b>	12 months from date of despatch
<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.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA185G10094">https://www.bio-rad-antibodies.com/SDS/HCA185G10094</a>
<b>Licensed Use</b>	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

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

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

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

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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