

Datasheet: HCA184G

Description:	HUMAN ANTI BEVACIZUMAB
Specificity:	BEVACIZUMAB
Other names:	AVASTIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD16748_hlgG1
Isotype:	IgG1
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	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Antibody concentration 1.0 mg/ml
Immunogen	Bevacizumab

Specificity **Human Anti-Bevacizumab Antibody, clone AbD16748_IgG1** 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.](#)

Purity 97.8% (capillary electrophoresis, reducing conditions)

Affinity The intrinsic affinity of the monovalent form of this antibody is $K_D=2.1\text{nM}$ as measured by real time, label-free molecular interaction analysis on immobilized Bevacizumab.

ELISA This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA, when conjugated to HRP, together with [HCA182](#) as the capture reagent. Protocol: [PK bridging ELISA to measure free drug](#)
This antibody is fully human and can be used as a reference standard in an ADA assay. Protocol: [ADA bridging ELISA](#).

References

1. Kashiwagi, N. *et al.* (2017) Method for measuring anti-drug antibody [US Patent Application US20170315118A1](#)
2. Lallemand, C. *et al.* (2020) Quantification of Bevacizumab Activity Following Treatment of Patients With Ovarian Cancer or Glioblastoma. [Front Immunol. 11: 515556.](#)

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 $2-8^{\circ}\text{C}$ 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 for details. Avastin is a trademark of Genentech, Inc.

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/HCA184G>
10040

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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 Useful Reagents

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

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

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

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