

Datasheet: HCA184P

Description:	HUMAN ANTI BEVACIZUMAB:HRP
Specificity:	BEVACIZUMAB
Other names:	AVASTIN
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD16748_hlgG1
Isotype:	IgG1
Quantity:	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.

	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein A.
Source	HKB-11
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.01% Thiomersal.
Approx. Protein Concentrations	Total protein 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.](#)

Affinity The monovalent intrinsic affinity 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 together with [HCA182](#) as the capture reagent.
Protocol: [PK bridging ELISA to measure free drug.](#)

References 1. Kashiwagi, N. *et al.* (2017) Method for measuring anti-drug antibody [US Patent Application US20170315118A1](#)

Storage This product is shipped frozen.
When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C , if available, otherwise store at -20°C . It is not recommended to keep aliquots at 4°C for more than one week.

Guarantee 12 months from date of despatch.

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

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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

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

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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
'M416658:230302'

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