

Datasheet: HCA182G

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

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

Immunogen

Bevacizumab

Specificity	<p>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.</p> <p>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_hlgG1 (HCA184P) as the detection antibody.</p> <p>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.</p> <p>View a summary of all Anti-Bevacizumab Antibodies.</p>
Affinity	<p>The intrinsic affinity of the monovalent form of this antibody is $K^D=0.4$ nM as measured by real time, label-free molecular interaction analysis on immobilized Bevacizumab.</p>
ELISA	<p>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.</p> <p>Protocol: PK bridging ELISA to measure free drug.</p>
References	<ol style="list-style-type: none"> McFarland, T.J. <i>et al.</i> (2015) BEVACIZUMAB LEVELS IN BREAST MILK AFTER LONG-TERM INTRAVITREAL INJECTIONS. Retina. 35 (8): 1670-3. Iwamoto, N. <i>et al.</i> (2018) Antibody drug quantitation in coexistence with anti-drug antibodies on nSMOL bioanalysis. Anal Biochem. 540-541: 30-7.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	<p>12 months from date of despatch</p>
Acknowledgements	<p>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.</p> <p>Avastin is a trademark of Genentech, Inc.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA182G10040</p>

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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](#).

This antibody contains Strep-tag and will react with streptavidin.

Related Products

Recommended Secondary Antibodies

Mouse Anti Viral V5-TAG (MCA1360...) [Biotin](#), [HRP](#)

Recommended Useful Reagents

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

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

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

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