Datasheet: HCA182G

BATCH NUMBER 172555

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 (NaN_3)

Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

Immunogen	Bevacizumab
Specificity	**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. 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_hIgG1 (HCA184P) as the detection 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 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.
ELISA	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. Protocol: PK bridging ELISA to measure free drug.
References	1. McFarland, T.J. *et al.* (2015) BEVACIZUMAB LEVELS IN BREAST MILK AFTER LONG-TERM INTRAVITREAL INJECTIONS. Retina. 35 (8): 1670-3. 2. Iwamoto, N. *et al.* (2018) Antibody drug quantitation in coexistence with anti-drug antibodies on nSMOL bioanalysis. Anal Biochem. 540-541: 30-7.
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°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	
Health And Safety	Material Safety Datasheet documentation #10040 available at:

Information	https://www.bio-rad-antibodies.com/SDS/HCA182G
Licensed Use	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.
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)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M430116:240503'

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