

Datasheet: HCA396

BATCH NUMBER 167377

Description:	HUMAN ANTI AVELUMAB
Specificity:	AVELUMAB
Other names:	Bavencio
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD40519ia
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 (lambda 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 0.5 mg/ml
Immunogen	Avelumab

Specificity	<p>Human Anti-Avelumab Antibody, clone AbD40519ia is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug avelumab. The antibody does not recognize free PD-L1 nor avelumab in complex with PD-L1. This antibody can be used to measure free avelumab levels in serum from patients.</p> <p>This antibody is available in three formats: as a full length IgG1 antibody (HCA396) for use in ADA assays, as well as two formats incorporating a SpyTag: a monovalent recombinant Fab format (TZA040), and a bivalent SpyTag Fab format (TZA040P) coupled with a HRP conjugated BiSpyCatcher2 (TZC002P). Either Fab format can be used to develop a pharmacokinetic (PK) bridging ELISA to measure free avelumab captured via immobilized PD-L1.</p> <p>Avelumab (Bavencio) is a human IgG1/lambda antibody with allotype IGHG1*05 (G1m17,1). It binds to programmed death-ligand 1 (PD-L1, CD274) on tumor cells, blocking its interaction with PD-1 and B7-1 receptors on T-lymphocytes. PD-L1 is an immune checkpoint protein expressed on tumor cells and tumor-infiltrating immune cells that down regulates T-cell function, so by blocking these receptors anti-tumor T-cell activity can be restored. In vitro, the drug has been shown to stimulate natural killer cell-mediated direct tumor cell lysis by inducing antibody-dependent cell-mediated cytotoxicity. Avelumab has been approved both as monotherapy for the treatment of adult patients with metastatic Merkel cell carcinoma (MCC) and for the treatment of advanced Renal Cell Carcinoma (RCC).</p>
Affinity	<p>The monovalent intrinsic affinity of Human anti-Avelumab Antibody, clone AbD40519ia was measured as $K_D = 0.9$ nM by real time, label-free molecular interaction analysis on immobilized avelumab.</p>
ELISA	<p>This product may be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera together with HCA397 and HCA398. Protocol: ADA bridging ELISA</p>
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>Bavencio is a registered trademark of Merck Serono (Pfizer as co-developer).</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA396</p>

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Licensed Use	For <i>in vitro</i> . 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 .

Related Products

Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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

[HUMAN ANTI AVELUMAB \(HCA397\)](#)

[HUMAN ANTI AVELUMAB \(HCA398\)](#)

[HUMAN ANTI AVELUMAB \(TZA040\)](#)

[HUMAN ANTI AVELUMAB:HRP \(TZA040P\)](#)

[HUMAN ANTI AVELUMAB \(TZA041\)](#)

[HUMAN ANTI AVELUMAB \(DRUG/TARGET COMPLEX\) \(TZA042\)](#)

[HUMAN ANTI AVELUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA042P\)](#)

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