

Datasheet: TZA0116

Description:	HUMAN ANTI ELOTUZUMAB
Specificity:	ELOTUZUMAB
Other names:	Empliciti
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD60184
Isotype:	Fab antibody
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

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL phage display library and expressed in a proprietary E. coli strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Specificity

Human Anti-Elotuzumab Antibody, clone AbD60184 is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug elotuzumab, and its biosimilar products. It does not recognize the drug target, signalling lymphocytic activation molecule family member 7 protein (SLAMF7), nor elotuzumab in complex with SLAMF7. This antibody can be used to measure free elotuzumab levels in serum from patients.

Clone AbD60184 is available as a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the [SpyCatchers](#) available in our catalog under product code [TZA0116](#). It is also available as a bivalent Fab antibody already conjugated to HRP via coupling to the HRP conjugated BiSpyCatcher2 ([TZC002P](#)) for use in direct ELISA under product code [TZA0116P](#).

A pair of anti-elotuzumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD60184 is recommended as a detection antibody, paired with Human Anti-Elotuzumab Antibody, clone AbD60184ad ([TZA0115](#)) as the capture reagent.

Elotuzumab (trade name Empliciti) is a humanized monoclonal antibody of the IgG1/kappa isotype that targets SLAMF7 and directly activates Natural Killer cells through both the SLAMF7 pathway and immunostimulatory Fc receptor binding. Elotuzumab also targets SLAMF7 on myeloma cells and facilitates the interaction with Natural Killer cells to mediate the killing of myeloma cells through antibody-dependent cellular cytotoxicity (ADCC). Elotuzumab is indicated to treat multiple myeloma and in combination with lenalidomide and dexamethasone for the treatment of patients with multiple myeloma.

[View a summary of all anti-elotuzumab antibodies](#)

Affinity

The monovalent intrinsic affinity of Human anti-Elotuzumab Antibody, clone AbD60184ad was measured as $K_D = 0.7$ nM by real time, label-free molecular interaction analysis on immobilized elotuzumab.

ELISA

Clone AbD60184ad can be used in indirect ELISA to detect elotuzumab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for elotuzumab, together with [TZA0115](#) as the capture reagent. Note that both TZA0115 (capture) and TZA0116 (detection) contain the same peptide tags. Therefore, using anti-tag antibodies for detecting TZA0116 is not possible.

Protocol: [PK bridging ELISA](#)

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
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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. His-tag is a registered trademark of EMD Biosciences. Empliciti is a registered trademark of Bristol-Myers Squibb and AbbVie Inc.
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Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0116
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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.
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Regulatory	For research purposes only
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Technical Advice	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products , and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual .
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Related Products

Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)
[HUMAN ANTI ELOTUZUMAB \(HCA438\)](#)
[HUMAN ANTI ELOTUZUMAB \(HCA439\)](#)
[HUMAN ANTI ELOTUZUMAB \(HCA440\)](#)
[HUMAN ANTI ELOTUZUMAB \(TZA0115\)](#)
[HUMAN ANTI ELOTUZUMAB:HRP \(TZA0116P\)](#)

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

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