

Datasheet: TZA0125

BATCH NUMBER 172590

Description:	HUMAN ANTI ISATUXIMAB
Specificity:	ISATUXIMAB
Other names:	Sarclisa
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD64592
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

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Isatuximab

Specificity **Human Anti-Isatuximab Antibody, clone AbD64592** is a paratope specific, inhibitory, anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug isatuximab. It does not recognize the drug target, CD38, nor isatuximab in complex with CD38. This antibody can be used to measure free isatuximab levels in serum from patients.

Clone AbD64592 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 [TZA0125](#). 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 [TZA0125P](#).

A pair of anti-isatuximab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug; clone AbD64592 is recommended as a detection antibody, paired with Human Anti-Isatuximab Antibody, clone AbD64599ad ([TZA0124](#)) as the capture reagent.

Isatuximab (trade name Sarclisa) is a chimeric human/mouse IgG1/kappa, produced using recombinant DNA technology in Chinese hamster ovary (CHO) cells. Isatuximab is an IgG1-derived monoclonal antibody targeted against CD38. Its binding towards CD38 positive myeloma cells results in several downstream effects, including direct apoptosis of the affected cell and activation of immune mechanisms including antibody-dependent cell-mediated cytotoxicity (ADCC), antibody-dependent cellular phagocytosis (ADCP), and complement dependent cyto-toxicity (CDC), all of which result in potent anti-tumour activity. Isatuximab is indicated for the treatment of multiple myeloma in adults.

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

Affinity The monovalent intrinsic affinity of Human anti-Isatuximab Antibody, clone AbD64592ad was measured as $K_D = 1.0$ nM by real time, label-free molecular interaction analysis on immobilized isatuximab.

ELISA Clone AbD64592ad can be used in indirect ELISA to detect isatuximab. It can also be used as a detection antibody to develop a pharmacokinetic (PK) bridging ELISA for isatuximab, together with [TZA0124](#) as the capture reagent. Note that both [TZA0124](#) (capture) and [TZA0125](#) (detection) contain the same peptide tags. Therefore, using anti-tag antibodies for detecting [TZA0125](#) 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°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. Sarclisa is a registered trademark of ImmunoGen, Sanofi, and Sanofi-Aventis U.S.LLC.
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Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA0125
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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 ISATUXIMAB \(HCA441\)](#)
[HUMAN ANTI ISATUXIMAB \(HCA442\)](#)
[HUMAN ANTI ISATUXIMAB \(HCA443\)](#)
[HUMAN ANTI ISATUXIMAB \(TZA0124\)](#)
[HUMAN ANTI ISATUXIMAB:HRP \(TZA0125P\)](#)

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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