

Datasheet: TZA007

BATCH NUMBER 161483

Description:	HUMAN ANTI EVOLOCUMAB
Specificity:	EVOLOCUMAB
Other names:	Repatha
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD40406ad
Isotype:	HuCAL Fab monovalent
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. 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 liquid.

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Evolocumab

Specificity **Human Anti-Evolocumab Antibody, clone AbD40406ad**, is a paratope specific, inhibitory antibody that specifically recognizes the monoclonal antibody drug evolocumab. It does not recognize the drug target, human proprotein convertase subtilisin/kexin type 9 (PCSK9), nor evolocumab in complex with PCSK9. The antibody can be used to measure free evolocumab in patient samples.

The antibody is tagged with a SpyTag2 at the C-terminus of the Fab antibody heavy chain, enabling the user to couple it to a SpyCatcher reagent for conversion to alternative formats in less than one hour.

[View a summary of SpyCatcher products](#)

A pair of anti-evolocumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody, in monovalent Fab format, is recommended as the capture antibody, use the same clone in fully human IgG1 format, clone AbD40410ia ([HCA376](#)) for detection.

Evolocumab (Repatha) is a fully human IgG2 lambda antibody developed using transgenic mouse technology. It has been approved for treating selected patients with high cholesterol, and for the prevention of heart attack and stroke. The drug prevents the PCSK9 protein binding to the low density lipoprotein receptor (LDLR), thereby increasing the number of LDLRs available and lowering LDL levels.

[View a summary of all evolocumab antibodies](#)

Affinity The monovalent intrinsic affinity of AbD40406ad was measured as $K_D = 1$ nM by real time, label free molecular interaction analysis on immobilized evolocumab.

ELISA Clone AbD40406ad can be used as the capture antibody for evolocumab in a PK bridging ELISA together with HRP conjugated HCA376 or TZA008P as the detection reagent.

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

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
Repatha is a trademark of Amgen

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA007 20479
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 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

Related Products

Recommended Useful Reagents

- [HUMAN ANTI EVOLOCUMAB \(HCA377\)](#)
- [HUMAN ANTI EVOLOCUMAB \(HCA378\)](#)
- [HUMAN ANTI EVOLOCUMAB \(TZA008\)](#)
- [HUMAN ANTI EVOLOCUMAB:HRP \(TZA008P\)](#)
- [HUMAN ANTI EVOLOCUMAB \(HCA376\)](#)
- [HISPEC ASSAY DILUENT \(BUF049A\)](#)
- [SpyTag3 PEPTIDE \(BLP086\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M399054:220805'

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