

## Datasheet: TZA007

<b>Description:</b>	HUMAN ANTI EVOLOCUMAB
<b>Specificity:</b>	EVOLOCUMAB
<b>Other names:</b>	Repatha
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD40406ad
<b>Isotype:</b>	HuCAL Fab monovalent
<b>Quantity:</b>	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](http://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](#)

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**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.

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**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](#)

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**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.

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**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](http://bio-rad.com/en-us/trademarks) for details

His-tag is a registered trademark of EMD Biosciences

Repatha is a trademark of Amgen

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: 20479: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/20479.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/20479.pdf</a>
<b>Licensed Use</b>	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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at <a href="#">SpyTag and SpyCatcher Products</a> , and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

## Related Products

### Recommended Useful Reagents

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

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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](https://bio-rad-antibodies.com/datasheets)  
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Printed on 09 Dec 2022