

Datasheet: HCA376

**BATCH NUMBER 161482**

<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>	AbD40410ia
<b>Isotype:</b>	IgG1
<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.

<b>Product Form</b>	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.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Evolocumab
<b>Specificity</b>	<b>Human Anti-Evolocumab Antibody, clone AbD40410ia</b> , 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.

A pair of anti-evolocumab antibodies can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug. This antibody can be used as the detection antibody, paired with an anti-evolocumab antibody in monovalent Fab format, clone AbD40406ad ([TZA007](#)), as the capture antibody.

Clone AbD40410ia is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 5 nM and is one of three antibodies offered for ADA assays. Antibody [HCA377](#) has affinity 1 nM and [HCA378](#) has affinity 5 nM.

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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<b>Affinity</b>	The monovalent intrinsic affinity of AbD40410ia was measured as $K_D = 5$ nM by real time, label free molecular interaction analysis on immobilized evolocumab.
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<b>ELISA</b>	Clone AbD40410ia can be used as a detection antibody for evolocumab in a bridging ELISA together with TZA007 as the capture reagent. It can also be used as a calibrator in an anti-drug antibody assay.
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Protocol: [ADA bridging ELISA](#)

Protocol: [PK bridging ELISA](#)

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<b>Storage</b>	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.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details. Repatha is a trademark of Amgen.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA376">https://www.bio-rad-antibodies.com/SDS/HCA376</a> 10094
<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 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

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)  
[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)  
[HUMAN ANTI EVOLOCUMAB \(HCA377\)](#)  
[HUMAN ANTI EVOLOCUMAB \(HCA378\)](#)  
[HUMAN ANTI EVOLOCUMAB \(TZA007\)](#)  
[HUMAN ANTI EVOLOCUMAB \(TZA008\)](#)  
[HUMAN ANTI EVOLOCUMAB:HRP \(TZA008P\)](#)  
[HISPEC ASSAY DILUENT \(BUF049A\)](#)

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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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