Datasheet: TZA008P

Description:	HUMAN ANTI EVOLOCUMAB:HRP
Specificity:	EVOLOCUMAB
Other names:	Repatha
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD40410
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 bivalent human recombinant Fab (lambda light chain) generated by coupling of the monovalent SpyTagged Fab TZA008 with a HRP conjugated BiCatcher version 2. The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide in 5-fold molar excess to block any unreacted Catcher sites. 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

Immunogen	Evolocumab
Specificity	**Human Anti-Evolocumab Antibody, clone AbD40410**, 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 monovalent Fab format of this antibody, clone AbD40410ad (TZA008) 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 is recommended as the detection antibody when in the bivalent HRP conjugated format, clone AbD40410pap (TZA008P) paired with an anti-evolocumab antibody in monovalent Fab format, clone AbD40406ad (TZA007), as the capture antibody. 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 AbD40410 was measured as K_D = 5 nM by real time, label free molecular interaction analysis on immobilized evolocumab.
ELISA	Clone AbD40410pap can be used as the detection antibody for evolocumab in a PK bridging ELISA together with TZA007 as the capture reagent. Protocol:PK bridging ELISA
Storage	This product is shipped frozen. When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week.
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/TZA008P 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

HISPEC ASSAY DILUENT (BUF049A)
HUMAN ANTI EVOLOCUMAB (HCA376)
HUMAN ANTI EVOLOCUMAB (HCA377)
HUMAN ANTI EVOLOCUMAB (HCA378)
HUMAN ANTI EVOLOCUMAB (TZA007)
HUMAN ANTI EVOLOCUMAB (TZA008)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)
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

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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