

Datasheet: TZA017P

BATCH NUMBER 165710

Description:	HUMAN ANTI DUPILUMAB:HRP
Specificity:	DUPILUMAB
Other names:	Dupixent
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD48542
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 [TZA017](#) with a HRP conjugated BiSpyCatcher version 2. The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ([BLP086](#)) 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

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Dupilumab

Specificity **Human Anti-Dupilumab Antibody, clone AbD48542** is a paratope specific, non-inhibitory anti-idiotypic antibody (Type 2) that specifically recognizes the free human monoclonal antibody drug dupilumab, and dupilumab in complex with IL-4R α , but not free IL-4R α . This antibody can be used to measure total dupilumab levels (free as well as in complex with human IL-4R α) in serum from patients.

This TrailBlazer Antibody is available in two different formats, monovalent Fab unconjugated (TZA017) and bivalent Fab conjugated to HRP (TZA017P). The monovalent recombinant Fab antibody has a SpyTag incorporated, which is used to create the bivalent format by coupling two SpyTagged Fab antibodies to an HRP conjugated BiSpyCatcher2 ([TZC002P](#)). Either format can be used to develop a pharmacokinetic (PK) bridging ELISA to measure free dupilumab captured via immobilized IL-4R α .

TZA017 can also be converted by the user into alternative antibody formats using any of the SpyCatchers available in our catalog.

[View a summary of all SpyCatcher products](#)

Dupilumab (Dupixent) is a human IgG4/kappa antibody inhibiting both IL-4 and IL-13 receptors, thereby blocking these receptor signaling pathways. Dupilumab inhibits the signaling of interleukins (IL) that induce inflammatory and immunological reactions in several atopic or allergic conditions, such as eczema, allergic reaction, and rhinosinusitis.

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

Affinity The monovalent intrinsic affinity of AbD48542pap was measured as $K_D = 179$ nM by real time, label free molecular interaction analysis on immobilized dupilumab.

ELISA Clone AbD48542pap can be used as a detection antibody, together with [TZA016](#) as the capture antibody to detect dupilumab total drug levels in the serum of patients in PK Bridging ELISA.

Protocol: [PK Bridging ELISA to measure total drug](#)

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.

Dupixent is a registered trademark of Regeneron Pharmaceuticals, Sanofi-Aventis.

Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA017P 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 DUPILUMAB \(TZA016\)](#)
[HUMAN ANTI DUPILUMAB \(TZA017\)](#)
[HUMAN ANTI DUPILUMAB \(HCA383\)](#)
[HUMAN ANTI DUPILUMAB \(HCA384\)](#)
[HUMAN ANTI DUPILUMAB \(TZA014\)](#)
[HUMAN ANTI DUPILUMAB \(TZA015\)](#)
[HUMAN ANTI DUPILUMAB:HRP \(TZA015P\)](#)

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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
'M426559:240202'

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