

## Datasheet: TZA015P

**BATCH NUMBER 165709**

<b>Description:</b>	HUMAN ANTI DUPILUMAB:HRP
<b>Specificity:</b>	DUPILUMAB
<b>Other names:</b>	Dupixent
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD47092
<b>Isotype:</b>	Fab antibody
<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 bivalent human recombinant Fab (lambda light chain) generated by coupling of the monovalent SpyTagged Fab [TZA015](#) 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

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**Immunogen** Dupilumab

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**Specificity** **Human Anti-Dupilumab Antibody, clone AbD47092** is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody drug dupilumab. TZA015 neither recognizes free IL-4Ra nor dupilumab in complex with IL-4Ra. Consequently, this antibody can be used to measure free dupilumab levels in serum from patients.

This TrailBlazer Antibody is available in two different formats, monovalent Fab unconjugated (TZA015) and bivalent Fab conjugated to HRP (TZA015P). 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-4Ra.

TZA015 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](#)

Clone AbD47092 is also available in full length IgG1 format under product code [HCA384](#)

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](#)

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**Affinity** The monovalent intrinsic affinity of AbD47092pap was measured as  $K_D = 0.3$  nM by real time, label free molecular interaction analysis on immobilized dupilumab.

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**ELISA** Clone AbD47092pap can be used as the detection antibody for dupilumab in a PK bridging ELISA to measure free drug levels in the serum of patients together with [TZA014](#) as the capture reagent.

Protocol: [PK bridging ELISA](#)

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**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.

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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](https://www.bio-rad.com/en-us/trademarks) for details.

His-tag is a registered trademark of EMD Biosciences.

Dupixent is a trademark of Regeneron Pharmaceuticals, Sanofi-Aventis

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA015P">https://www.bio-rad-antibodies.com/SDS/TZA015P</a> 20479
<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>

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## Related Products

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)  
[HUMAN ANTI DUPILUMAB \(HCA383\)](#)  
[HUMAN ANTI DUPILUMAB \(HCA384\)](#)  
[HUMAN ANTI DUPILUMAB \(TZA014\)](#)  
[HUMAN ANTI DUPILUMAB \(TZA015\)](#)  
[HUMAN ANTI DUPILUMAB:HRP \(TZA015P\)](#)  
[HUMAN ANTI DUPILUMAB \(TZA016\)](#)  
[HUMAN ANTI DUPILUMAB \(TZA017\)](#)  
[HUMAN ANTI DUPILUMAB:HRP \(TZA017P\)](#)  
[SpyTag3 PEPTIDE \(BLP086\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://www.bio-rad-antibodies.com/datasheets)  
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