

## Datasheet: TZA016

<b>Description:</b>	HUMAN ANTI DUPILUMAB
<b>Specificity:</b>	DUPILUMAB
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD48333ad
<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 monovalent human recombinant Fab (kappa 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 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

Dupilumab

<b>Specificity</b>	<p><b>Human Anti-Dupilumab Antibody, clone AbD48333ad</b> is a paratope specific, non-inhibitory anti-idiotypic antibody (Type 2) that specifically recognizes the free human monoclonal antibody dupilumab, and dupilumab in complex with IL-4Ra, but not free IL-4Ra. TZA016 can be used to measure total dupilumab levels (free as well as in complex with human IL-4Ra) in serum from patients.</p> <p>This TrailBlazer Antibody is available in an unconjugated monovalent Fab format. It may be used as capture antibody for dupilumab in a pharmacokinetic (PK) antigen detection assay together with <a href="#">TZA017</a> (AbD48542ad) coupled to an HRP-conjugated BiSpyCatcher2 as detection reagent.</p> <p>TZA016 can also be converted by the user into alternative antibody formats using any of the SpyCatchers available in our catalog.</p> <p><a href="#">View a summary of all SpyCatcher products</a></p> <p>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.</p> <p><a href="#">View a summary of all anti-dupilumab antibodies</a></p>
<b>Affinity</b>	<p>The monovalent intrinsic affinity of AbD48333ad was measured as <math>K_D = 228</math> nM by real time, label free molecular interaction analysis on immobilized dupilumab.</p>
<b>ELISA</b>	<p>Clone AbD48333ad can be used as the capture antibody for dupilumab in a bridging ELISA together with <a href="#">TZA017</a> (AbD48542ad) coupled to an HRP-conjugated BiSpyCatcher2 as detection reagent.</p> <p>Protocol: <a href="#">PK bridging ELISA</a></p>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	<p>12 months from date of despatch</p>
<b>Acknowledgements</b>	<p>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.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p> <p>Dupilumab is a registered trademark of Regeneron Pharmaceuticals, Sanofi-Aventis.</p>
<b>Health And Safety</b>	<p>Material Safety Datasheet documentation #20479 available at:</p>

**Information** <https://www.bio-rad-antibodies.com/SDS/TZA016>  
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**Regulatory** For research purposes only

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**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](#)

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## Related Products

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

[SpyTag3 PEPTIDE \(BLP086\)](#)

[HUMAN ANTI DUPILUMAB \(TZA017\)](#)

[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)

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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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**Printed on 03 May 2024**

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