

Datasheet: TZA014

**BATCH NUMBER 164126**

<b>Description:</b>	HUMAN ANTI DUPILUMAB
<b>Specificity:</b>	DUPILUMAB
<b>Other names:</b>	Dupixent
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD47091
<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.

<b>Product Form</b>	A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in a proprietary <i>E. coli</i> strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.
<b>Preparation</b>	Metal chelate affinity chromatography
<b>Source</b>	E.coli
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.0095% MIT
<b>Approx. Protein</b>	Antibody concentration 0.5 mg/ml

## Concentrations

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Immunogen	Dupilumab
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Specificity	<p><b>Human Anti-Dupilumab Antibody, clone AbD47091</b> is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody Dupilumab. TZA014 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.</p>
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Anti-Dupilumab monovalent Fab antibody, TZA014, 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.](#)

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Affinity	The monovalent intrinsic affinity of AbD47091ad was measured as $K_D = 0.8$ nM by real time, label free molecular interaction analysis on immobilized dupilumab.
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ELISA	Clone AbD47091ad can be used as a capture antibody for dupilumab in a bridging ELISA together with <a href="#">TZA015</a> coupled to an HRP-conjugated BiSpyCatcher2 as the detection reagent.
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Protocol: [PK bridging ELISA](#)

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Storage	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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Guarantee	12 months from date of despatch
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Acknowledgements	<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>Dupixent is a trademark of Regeneron Pharmaceuticals, Sanofi-Aventis.</p>
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Health And Safety Information	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/TZA014">https://www.bio-rad-antibodies.com/SDS/TZA014</a>
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<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 \(BUF049A\)](#)

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

[HUMAN ANTI DUPILUMAB \(HCA383\)](#)

[HUMAN ANTI DUPILUMAB \(HCA384\)](#)

[HUMAN ANTI DUPILUMAB \(TZA015\)](#)

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

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