

Datasheet: TZA015

BATCH NUMBER 164127

Description:	HUMAN ANTI DUPILUMAB
Specificity:	DUPILUMAB
Other names:	Dupixent
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD47092
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 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 (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	Antibody concentration 0.5 mg/ml

Concentrations

Immunogen	Dupilumab
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Specificity	<p>Human Anti-Dupilumab Antibody, clone AbD47092 is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody 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.</p>
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This Trailblazer Antibody is in a monovalent unconjugated recombinant Fab format. It has a SpyTag incorporated and can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free dupilumab captured via immobilized IL-4Ra.

[PK bridging ELISA](#)

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](#)

Affinity	The monovalent intrinsic affinity of AbD47092ad 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 AbD47092ad can be used as the capture antibody for dupilumab in a bridging ELISA together with AbD47092ad (TZA015) coupled to an HRP-conjugated BiSpyCatcher2 as the detection reagent
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Protocol: [PK bridging ELISA](#)

Also this antibody can be coupled with SpyCatcher adaptors for use in combination with clone AbD47091ad ([TZA014](#)) as capture reagent. Note that both [TZA014](#) (capture) and TZA015 (detection) contain the same peptide tags, therefore using anti-tag antibodies for detecting TZA015 is not possible.

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.

Guarantee	12 months from date of despatch
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 bio-rad.com/en-us/trademarks 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>
Health And Safety Information	<p>Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA015</p> <p>20479</p>
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	<p>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</p>

Related Products

Recommended Useful Reagents

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

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

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

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

[HUMAN ANTI DUPILUMAB \(TZA014\)](#)

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

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