

## Datasheet: HCA384

<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>	AbD47092ia
<b>Isotype:</b>	IgG1
<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>	Human IgG1 antibody (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. This product is supplied as a liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Dupilumab

**Specificity**

**Human Anti-Dupilumab Antibody, clone AbD47092ia** is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody Dupilumab. HCA384 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.

HCA384 may be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera, together with [HCA383](#).

Human Anti-Dupilumab Antibody, clone AbD47092ia is available as a monovalent Fab antibody incorporating a SpyTag under product code ([TZA015](#)) for conversion by the user into alternative antibody formats using any of the [SpyCatchers](#) available in our catalog.

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 intrinsic affinity of the monovalent form of Human anti Dupilumab antibody, clone AbD47092ia is  $K_D = 0.3$  nM as measured by real time, label free molecular interaction analysis on immobilized Dupilumab.

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**ELISA**

Human anti Dupilumab antibody, clone AbD47092ia can be used as a calibrator in an anti-drug antibody assay.  
Protocol: [ADA 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.

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**

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](http://bio-rad.com/en-us/trademarks) for details.  
Dupixent is a trademark of Regeneron Pharmaceuticals, Sanofi-Aventis.

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/HCA384>  
10040

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**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.

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**Regulatory**

For research purposes only

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**Technical Advice**

Recommended protocols 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 \(LNK002P\)](#)

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

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

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

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**Printed on 01 Mar 2024**