

Datasheet: HCA383

BATCH NUMBER 164131

Description:	HUMAN ANTI DUPILUMAB
Specificity:	DUPILUMAB
Other names:	Dupixent
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD47090ia
Isotype:	IgG1
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	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Dupilumab

Specificity **Human Anti-Dupilumab Antibody, clone AbD47090ia** is a paratope specific, inhibitory anti-idiotypic antibody (Type 1) that specifically recognizes the free human monoclonal antibody Dupilumab. HCA383 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.

Human Anti-Dupilumab Antibody, clone AbD47090ia may be used to develop and calibrate immune response assays to measure the anti-drug antibody (ADA) response in patient sera, together with [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 intrinsic affinity of the monovalent form of Human anti Dupilumab antibody, clone AbD47090ia is $K_D = 0.4$ nM as measured by real time, label free molecular interaction analysis on immobilized Dupilumab.

ELISA Human anti Dupilumab antibody, clone AbD47090ia can be used as a calibrator in an anti-drug antibody assay.
Protocol: [ADA bridging ELISA](#).

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.

Guarantee 12 months from date of despatch

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 for details.
Dupixent is a trademark of Regeneron Pharmaceuticals, Sanofi-Aventis.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA383>
10040

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Regulatory For research purposes only

Technical Advice Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

Related Products

Recommended Useful Reagents

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

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

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

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

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

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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

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