

Datasheet: TZA054

BATCH NUMBER 167908

Description:	HUMAN ANTI DUPILUMAB (DRUG/TARGET COMPLEX)
Specificity:	DUPILUMAB DRUG/TARGET COMPLEX
Other names:	Dupixent
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD48337
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 (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/IL-4R α complex
Specificity	<p>Human Anti-Dupilumab (Drug/Target Complex) Antibody, clone AbD48337 recognizes the monoclonal antibody drug dupilumab when in complex with its target, the Interleukin-4 Receptor alpha (IL-4Rα). It does not recognize free dupilumab or unbound IL-4Rα. It can be used to measure levels of dupilumab in patient samples.</p> <p>Clone AbD48337 is a monovalent Fab format antibody that can be used to develop a pharmacokinetic (PK) antigen capture assay to measure free dupilumab captured via immobilized IL-4Rα. It is tagged with a SpyTag2 at the C-terminus of the Fab heavy chain, enabling the user to couple it to a SpyCatcher reagent for conversion to alternative formats in less than one hour.</p> <p>View a summary of SpyCatcher products</p> <p>Dupilumab is a fully human monoclonal antibody of the IgG4 subclass that binds to the interleukin-4 subunit α (IL-4Rα) receptor, inhibiting both IL-4 and IL-13 receptors and blocking the receptor signaling pathways. Dupilumab inhibits the signaling of interleukins that induce inflammatory and immunological reactions in several atopic or allergic conditions, such as eczema, allergic reaction, and rhinosinusitis.</p> <p>View a summary of all anti-dupilumab antibodies.</p>
Affinity	The monovalent intrinsic affinity of AbD48337ad was measured as $K_D = 2$ nM by real time, label free molecular interaction analysis on immobilized IL-4R α /dupilumab complex.
ELISA	Clone AbD48337ad may be used in an indirect ELISA to detect the IL-4R α /dupilumab complex or to detect dupilumab bound to immobilized IL-4R α .
Storage	<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>
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/TZA054</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 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](#)

Related Products

Recommended Useful Reagents

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

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

[BiSpyCatcher2:Biotin \(TZC002B\)](#)

[BiSpyCatcher2:HRP \(TZC002P\)](#)

[ANTI SpyTag \(HCA406\)](#)

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

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

[HUMAN ANTI DUPILUMAB:HRP \(TZA015P\)](#)

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

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

[HUMAN ANTI DUPILUMAB:HRP \(TZA017P\)](#)

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

[HUMAN ANTI DUPILUMAB \(TZA016\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M430674:240524'

Printed on 12 Sep 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)