

Datasheet: HCA342

BATCH NUMBER 159798

Description:	HUMAN ANTI PERTUZUMAB
Specificity:	PERTUZUMAB
Other names:	Perjeta
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD37070
Isotype:	HuCAL Fab monovalent
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 *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.01% Thiomersal

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen

Pertuzumab

Specificity **Human Anti-Pertuzumab Antibody, clone AbD37070** is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the humanized monoclonal antibody pertuzumab. It does not recognize free human epidermal growth factor receptor 2 (HER2) nor pertuzumab in complex with HER2. The antibody can be used to measure free pertuzumab or its biosimilars in patient samples.

Clone AbD37070 is a fully human recombinant monoclonal antibody in monovalent Fab format and is suitable as a capture antibody for pertuzumab in a pharmacokinetic (PK) bridging ELISA to measure free drug when paired with clone AbD37069ia ([HCA345](#), hIgG1 format) as the detection reagent.

Pertuzumab (Perjeta) is an IgG1/kappa antibody humanized from mouse. It has been approved for the treatment of patients with metastatic HER2-positive breast cancer in combination with trastuzumab. Pertuzumab binds to the extracellular domain II of HER2 and inhibits HER2-HER3 dimerization, reducing signaling through intracellular pathways ([Capelan et al. 2013](#)).

[View a summary of all anti-pertuzumab antibodies](#)

Affinity The monovalent intrinsic affinity of AbD37070 was measured as $K_D = 0.7$ nM by real time, label free molecular interaction analysis on immobilized pertuzumab.

ELISA Clone AbD37070 can be used in a direct or an indirect ELISA or as capture antibody for pertuzumab in a bridging ELISA together with HCA345 as the detection reagent.

Protocol: [PK bridging ELISA](#)

Further Reading 1. Capelan, M. et al. (2013) Pertuzumab: new hope for patients with HER2-positive breast cancer. [Ann Oncol. 24 \(2\): 273-282.](#)

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.
His-tag is a registered trademark of EMD Biosciences.
Perjeta is a trademark of Genentech, Inc.

Health And Safety Information Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA342>
10094

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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 PERTUZUMAB \(HCA341\)](#)

[HUMAN ANTI PERTUZUMAB \(HCA344\)](#)

[HUMAN ANTI PERTUZUMAB \(HCA345\)](#)

[MOUSE ANTI PENTA HISTIDINE TAG:HRP \(MCA5995P\)](#)

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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

'M390561:211208'

Printed on 06 Apr 2023

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