

Datasheet: HCA345

BATCH NUMBER 168159

Description:	HUMAN ANTI PERTUZUMAB
Specificity:	PERTUZUMAB
Other names:	Perjeta
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD37069ia
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 antibody 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	Pertuzumab

Specificity **Human Anti-Pertuzumab Antibody, clone AbD37069ia** 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 AbD37069ia is a fully human recombinant monoclonal antibody with IgG1 isotype and can be used as a surrogate positive control or reference standard in an anti-drug antibody (ADA) assay. This antibody has a monovalent intrinsic affinity of 2 nM, and is one of two antibodies with different affinities offered for ADA assays.

Clone AbD37069ia is also suitable as a detection antibody for pertuzumab in a pharmacokinetic (PK) bridging ELISA to measure free drug when paired with clone AbD37070 ([HCA342](#), Fab-FH format) as the capture 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 intrinsic affinity of the monovalent form of Human anti Pertuzumab antibody, clone AbD37069ia is $K_D = 2$ nM as measured by real time, label free molecular interaction analysis on immobilized Pertuzumab.

ELISA Human anti Pertuzumab antibody, clone AbD37069ia can be used in a direct or an indirect ELISA or as detection antibody for Pertuzumab in a bridging ELISA together with [HCA342](#) (AbD37070, Fab-FH) as the capture reagent. It can also be used as a calibrator in an anti-drug antibody assay.
Protocol: [ADA bridging ELISA](#).
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.
Perjeta is a trademark of Genentech, Inc.

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA345 10040
Licensed Use	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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 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 \(HCA342\)](#)

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

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'M428966:240305'

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