

Datasheet: HCA345

BATCH NUMBER 162607

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

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 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 monovalent intrinsic affinity of AbD37069ia was measured as $K_D = 2$ nM by real time, label free molecular interaction analysis on immobilized pertuzumab.
ELISA	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. <i>et al.</i> (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 #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA345 10094
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 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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