

## Datasheet: HCA345P

<b>Description:</b>	HUMAN ANTI PERTUZUMAB:HRP
<b>Specificity:</b>	PERTUZUMAB
<b>Other names:</b>	Perjeta
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD37069ia
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Product Form</b>	Human IgG1 antibody (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.0095% MIT
<b>Approx. Protein Concentrations</b>	Antibody concentration 1.0 mg/ml
<b>Immunogen</b>	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](#)

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**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.

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**ELISA**

This antibody can be used in a direct ELISA or as detection antibody for Pertuzumab in a bridging ELISA together with [HCA342](#) (AbD37070, Fab-FH) as the capture reagent. Protocol: [PK bridging ELISA](#).

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**Further Reading**

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

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**Storage**

This product is shipped frozen.  
When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**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.

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20479 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA345P">https://www.bio-rad-antibodies.com/SDS/HCA345P</a>
<b>Licensed Use</b>	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.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a> .

## Related Products

### Recommended Useful Reagents

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

[HUMAN ANTI PERTUZUMAB \(HCA341\)](#)

[HUMAN ANTI PERTUZUMAB \(HCA342\)](#)

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

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

[HUMAN ANTI PERTUZUMAB:HRP \(HCA345P\)](#)

[HUMAN ANTI PERTUZUMAB \(TZA025\)](#)

[HUMAN ANTI PERTUZUMAB:HRP \(TZA025P\)](#)

[HUMAN ANTI PERTUZUMAB \(DRUG/TARGET COMPLEX\) \(TZA035\)](#)

[HUMAN ANTI PERTUZUMAB \(DRUG/TARGET COMPLEX\):HRP \(TZA035P\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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