

## Datasheet: HCA341

<b>Description:</b>	HUMAN ANTI PERTUZUMAB
<b>Specificity:</b>	PERTUZUMAB
<b>Other names:</b>	Perjeta
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD35668
<b>Isotype:</b>	HuCAL Fab monovalent
<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.

### Product Form

A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL® phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a double extended Strep-tag (SAWSHPQFEKGGGSGGGSGGSAWSHPQFEK). This antibody is supplied as a liquid.

### Preparation

StrepTactin 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 AbD35668** 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 pertuzumab or its biosimilars in patient samples.

Clone AbD35668 is a fully human recombinant monoclonal antibody in monovalent Fab format and is suitable as the capture antibody in a pharmacokinetic (PK) bridging ELISA.

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 monovalent intrinsic affinity of AbD35668 was measured as  $K_D = 14$  nM by real time, label free molecular interaction analysis on immobilized pertuzumab.

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**ELISA** Clone AbD35668 can be used in an indirect ELISA or as capture antibody for pertuzumab in a 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 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.

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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](http://bio-rad.com/en-us/trademarks) for details. Perjeta is a trademark of Genentech, Inc.

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**Health And Safety Information** Material Safety Datasheet documentation #10094 available at: 10094: <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

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**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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

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## Related Products

### Recommended Useful Reagents

[LYNX RAPID HRP ANTIBODY CONJUGATION KIT \(LNK002P\)](#)

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

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

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

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

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**Printed on 21 Mar 2022**

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