

## Datasheet: HCA342

<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>	AbD37070
<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 (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

### Source

*E. coli*

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

<b>Immunogen</b>	Pertuzumab
<b>Specificity</b>	<p><b>Human Anti-Pertuzumab Antibody, clone AbD37070</b> 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.</p> <p>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 (<a href="#">HCA345</a>, hIgG1 format) as the detection reagent.</p> <p>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 (<a href="#">Capelan et al. 2013</a>).</p> <p><a href="#">View a summary of all anti-pertuzumab antibodies</a></p>
<b>Affinity</b>	The intrinsic affinity of the monovalent form of Human anti Pertuzumab antibody, clone AbD37070 is $K_D = 0.7$ nM as measured by real time, label free molecular interaction analysis on immobilized Pertuzumab.
<b>ELISA</b>	Human anti Pertuzumab antibody, clone AbD37070 can be used in a direct or an indirect ELISA or as capture antibody for Pertuzumab in a bridging ELISA together with <a href="#">HCA345</a> as the detection reagent. Protocol: <a href="#">PK bridging ELISA</a> .
<b>Further Reading</b>	1. Capelan, M. et al. (2013) Pertuzumab: new hope for patients with HER2-positive breast cancer. <a href="#">Ann Oncol. 24 (2): 273-282.</a>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>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 <a href="#">bio-rad.com/en-us/trademarks</a> for details.</p> <p>His-tag is a trademark of EMD Biosciences.</p> <p>Perjeta is a trademark of Genentech, Inc.</p>

**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/HCA342>  
10040

---

**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 \(HCA344\)](#)

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

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

**North & South America** Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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

'M417745:230406'

**Printed on 06 Apr 2023**

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)