

## Datasheet: HCA176P

**BATCH NUMBER 170709**

<b>Description:</b>	HUMAN ANTI TRASTUZUMAB:HRP
<b>Specificity:</b>	TRASTUZUMAB
<b>Other names:</b>	HERCEPTIN®
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD16712_hlgG1
<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 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>	Trastuzumab (Herceptin®)

**Specificity** **Human anti Trastuzumab, clone AbD16712\_hlgG1**, is an anti-idiotypic antibody that specifically recognizes the humanized monoclonal antibody drug trastuzumab, also known as Herceptin®. Clone AbD16712\_hlgG can be used to measure the levels of trastuzumab and biosimilar products using bioanalytical assays.

In the HRP-conjugated format clone AbD16712\_hlgG1 is ideal for use as a detection antibody in pharmacokinetic (PK) assays. It is a fully human antibody and therefore may also be used as a calibrator in immune response assays to measure the anti-drug-antibody (ADA) response in patient sera.

Trastuzumab is a drug used in the treatment of HER2 positive breast cancer and other HER2 overexpressing cancers including HER2-positive metastatic cancers of the gastrointestinal tract. Trastuzumab binds to the HER2 (or c-erbB2) proto-oncogene, an EGF receptor-like protein found on 20-30% of breast cancer cells. The binding leads to antibody mediated (complement mediated) killing of the HER2 positive cells

[View a summary of all anti-trastuzumab antibodies.](#)

---

**Affinity** The intrinsic affinity of the monovalent form of this antibody in an unconjugated format is 0.4 nM as measured by real time, label-free molecular interaction analysis on immobilized trastuzumab.

---

**ELISA** This product may be used as a detection reagent in a sandwich ELISA together with [HCA169](#) as the capture reagent.  
Protocol: [PK bridging ELISA to measure free drug.](#)

---

**References**

1. Kashiwagi, N. *et al.* (2017) Method for measuring anti-drug antibody [US Patent Application US20170315118](#)
2. Iwamoto, N. *et al.* (2018) Antibody drug quantitation in coexistence with anti-drug antibodies on nSMOL bioanalysis. [Anal Biochem. 540-541: 30-7.](#)
3. Arceo, T. *et al.* (2025) Impact of positive control binding properties on anti-drug antibody assay performance. [Bioanalysis. June 12 : 1-6 \[Epub ahead of print\]](#)

---

**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.

---

**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](http://bio-rad.com/en-us/trademarks) for details.

---

**Health And Safety Information** Material Safety Datasheet documentation #20479 available at: <https://www.bio-rad-antibodies.com/SDS/HCA176P>

---

**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

[HUMAN ANTI TRASTUZUMAB \(HCA166\)](#)

[HUMAN ANTI TRASTUZUMAB \(HCA169\)](#)

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

**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)  
'M438557:250516'

**Printed on 14 Jul 2025**

---

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)