Datasheet: HCA176G

**Description:** HUMAN ANTI TRASTUZUMAB

**Specificity:** TRASTUZUMAB

**Other names:** HERCEPTIN®

**Format:** Purified

**Product Type:** Monoclonal Antibody

**Clone:** AbD16712_hIgG1

**Isotype:** IgG1

**Quantity:** 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).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>ELISA</td>
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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 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 1.0 mg/ml

**Immunogen**

Trastuzumab (Herceptin®)

**RRID**

AB_11152942

**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_hlgG1 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.

**ELISA**

This product may be used as a detection reagent in a sandwich ELISA, when conjugated to HRP, together with HCA169 as the capture reagent.

Protocol: PK bridging ELISA to measure free drug

This antibody is fully human and can be used as a reference standard in an ADA assay. Protocol: ADA bridging ELISA

**References**


**Storage**

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch

**Acknowledgements**

Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. Herceptin® is a registered trademark of Genentech, Inc.

**Health And Safety Information**


**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 Negative Controls**

RECOMBINANT HUMAN IgG1 LAMBDA ALLOTYPE G1m3 (HCA049)
Recommended Useful Reagents

HUMAN ANTI TRASTUZUMAB (HCA177)
MOUSE ANTI HUMAN IgG (Fc) CH2 DOMAIN:HRP (MCA647P)
HUMAN ANTI TRASTUZUMAB (HCA166)
HUMAN ANTI TRASTUZUMAB (HCA169)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)
HISPEC ASSAY DILUENT (BUF049A)
HUMAN ANTI TRASTUZUMAB (HCA167)
HUMAN ANTI TRASTUZUMAB (HCA168)