**Datasheet: HCA176**

| Description: | HUMAN ANTI TRASTUZUMAB |
| Specificity: | TRASTUZUMAB |
| Other names: | HERCEPTIN® |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AbD16712_hIgG1 |
| Isotype: | IgG1 |
| Quantity: | 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).

<table>
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<tr>
<th>Applications</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 0.5 mg/ml.

**Immunogen**

Trastuzumab (Herceptin®)

**RRID**

AB_11152942

**Specificity**

Human anti Trastuzumab, clone AbD16712_hIgG1, is an anti-idiotypic antibody that specifically recognizes the humanized monoclonal antibody drug trastuzumab, also known as Herceptin®. Clone AbD16712_hIgG can be used to measure the levels of trastuzumab and biosimilar products using bioanalytical assays.

In the HRP-conjugated format clone AbD16712_hIgG1 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 (LNK001P)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK003P)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK004P)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK005P)
LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK006P)
HISPEC ASSAY DILUENT (BUF049A)
HUMAN ANTI TRASTUZUMAB (HCA167)
HUMAN ANTI TRASTUZUMAB (HCA168)