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.

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<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<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®)

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.
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](#)

### 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.

### Shelf Life
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 (HCA049)](#)
- [RECOMBINANT HUMAN IgG1 LAMBDA (HCA049)](#)
- [RECOMBINANT HUMAN IgG1 LAMBDA (HCA049)](#)
- [RECOMBINANT HUMAN IgG1 LAMBDA (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)
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LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK006P)
HISPEC ASSAY DILUENT (BUF049A)
HUMAN ANTI TRASTUZUMAB (HCA167)
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