

## Datasheet: HCA166

<b>Description:</b>	HUMAN ANTI TRASTUZUMAB
<b>Specificity:</b>	TRASTUZUMAB
<b>Other names:</b>	HERCEPTIN®
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD16712
<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 V5 tag and a double extended Strep-tag at the C-terminus of the antibody heavy chain. Supplied as a liquid.

### Preparation

StrepTactin 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>	Herceptin
<b>RRID</b>	AB_11152937
<b>Specificity</b>	<p><b>Human anti Trastuzumab antibody, clone AbD16712</b> a monoclonal antibody recognizes Trastuzumab, also known as Herceptin, 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. Herceptin 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.</p> <p><b>Human anti Trastuzumab (AbD16712)</b> is an anti-idiotypic antibody that specifically recognizes the Herceptin humanised monoclonal antibody and can be used to measure the Heceptin levels in serum from patients.</p> <p>This clone has been demonstrated to inhibit the Herceptin - HER2 interaction. Removal of the preservative is recommended prior to use in functional assays.</p>
<b>Affinity</b>	The monovalent intrinsic affinity of this antibody was measured as $KD=0.2$ nM by real time, label-free molecular interaction analysis on immobilized trastuzumab.
<b>ELISA</b>	This product may be used as a detection antibody, or as capture antibody in a sandwich ELISA together with <a href="#">HCA168</a> , when conjugated to HRP, as the detection reagent. Protocol: <a href="#">PK bridging ELISA to measure free drug</a>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at <math>-20^{\circ}\text{C}</math> on receipt. When thawed, aliquot the sample as needed. Keep aliquots at <math>2-8^{\circ}\text{C}</math> for short term use (up to 4 weeks) and store the remaining aliquots at <math>-20^{\circ}\text{C}</math>.</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="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.</p> <p>Herceptin® is a registered trademark of Genentech, Inc.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA166">https://www.bio-rad-antibodies.com/SDS/HCA166</a></p> <p>10040</p>
<b>Licensed Use</b>	For <i>in vitro</i> research purposes and for commercial applications for the provision of <i>in vitro</i> 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

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

This antibody contains Strep-tag and will react with streptavidin.

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## Related Products

### Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide STREP-TAG IMMO (MCA2488...) [Purified](#)

Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...) [HRP](#)

Mouse Anti Viral V5-TAG (MCA1360...) [Biotin](#), [HRP](#)

### Recommended Useful Reagents

[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)

[HUMAN ANTI TRASTUZUMAB \(HCA167\)](#)

[HUMAN ANTI TRASTUZUMAB \(HCA168\)](#)

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

[HUMAN ANTI TRASTUZUMAB \(HCA176\)](#)

[HUMAN ANTI TRASTUZUMAB \(HCA177\)](#)

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

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