

## Datasheet: HCA168G

<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>	AbD18018
<b>Isotype:</b>	HuCAL Fab monovalent
<b>Quantity:</b>	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 DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

### Preparation

Metal chelate affinity chromatography

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.01% Thiomersal

### Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

### Immunogen

Trastuzumab

**Specificity** **Human Anti-Trastuzumab Antibody, clone AbD18018**, is a paratope specific, high affinity, anti-idiotypic antibody that recognizes the monoclonal antibody drug trastuzumab and inhibits it binding to its target. The antibody can be used to measure the levels of trastuzumab and biosimilar products in bioanalytical assays. Human Anti-Trastuzumab Antibody, clone AbD18018 is a fully human recombinant monoclonal antibody in monovalent Fab format and is suitable as a capture or detection antibody paired with antibody clone AbD16712 ([HCA166](#)) in a pharmacokinetic (PK) bridging ELISA, to measure free drug in preclinical research and clinical trials using patient sera.

Human Anti-Trastuzumab Antibody, clone AbD18018 is also available in full immunoglobulin format as IgG1 isotype ([HCA177](#)) or IgG4 isotype ([HCA270](#)) in order to offer assay developers increased flexibility in assay design.

Trastuzumab, also known as Herceptin, is a drug used in the treatment of HER2 positive breast cancer and other HER2 over-expressing 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.](#)

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**Affinity** Human anti Trastuzumab antibody, clone AbD18018 is an ultra-high affinity idiotype antibody that recognizes the Herceptin humanized monoclonal antibody. The intrinsic affinity of the monovalent form of Human anti Trastuzumab antibody, clone AbD18018 is ~0.02nM as measured by real time, label-free molecular interaction analysis using an Attana A200 instrument on immobilized Herceptin.

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**ELISA** This product may be used in a direct ELISA or as a capture reagent in a sandwich ELISA together with [HCA166](#) as the detection reagent, when conjugated to HRP.  
Protocol: [PK bridging ELISA to measure free drug.](#)

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**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](#) for details.  
Herceptin is a registered trademark of Genentech, Inc.  
His-tag is a trademark of EMD Biosciences.

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**Health And Safety** Material Safety Datasheet documentation #10094 available at:

<b>Information</b>	10094: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf</a>
<b>Licensed Use</b>	For <i>in vitro</i> . research purposes and for commercial applications for the provision of <i>in vitro</i> . research testing services. Any re-sale or any other form of commercial application needs a written agreement with Bio-Rad.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a> .

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Synthetic Peptide HISTIDINE TAG (AHP1656...) [Biotin](#)
- Rat Anti Synthetic Peptide DYKDDDDK TAG (MCA4764...) [HRP](#)
- Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)
- Rabbit Anti Synthetic Peptide DYKDDDDK TAG (AHP1074...) [HRP](#)
- Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [Alk. Phos.](#), [Biotin](#)

### Recommended Negative Controls

[HuCAL Fab-FH NEGATIVE CONTROL \(HCA045\)](#)

### Recommended Useful Reagents

- [HUMAN ANTI TRASTUZUMAB \(HCA166\)](#)
- [HUMAN ANTI TRASTUZUMAB \(HCA167\)](#)
- [HUMAN ANTI TRASTUZUMAB \(HCA169\)](#)
- [MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)
- [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://www.bio-rad-antibodies.com/datasheets)  
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