

Datasheet: HCA168G

Description:	HUMAN ANTI TRASTUZUMAB
Specificity:	TRASTUZUMAB
Other names:	HERCEPTIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD18018
Isotype:	HuCAL Fab monovalent
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.

	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

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

ImmunogenTrastuzumab

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.](#)

Affinity

Human anti Trastuzumab antibody, clone AbD18018 is an ultra-high affinity idiotypic 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.

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.](#)

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.

Guarantee

12 months from date of despatch

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.

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA168G 10040
Licensed Use	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
Technical Advice	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual .

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
'M430137:240503'

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