

Datasheet: HCA168

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

	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 0.5 mg/ml

Immunogen

Trastuzumab

RRID

AB_11152944

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 its 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	HCA168 is an ultra-high affinity idiotype antibody that specifically recognises the Herceptin humanised monoclonal antibody. The monovalent intrinsic affinity of HCA168 was measured as 0.02nM 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	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. His-tag is a registered trademark of EMD Biosciences.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
Licensed Use	For <i>in vitro</i> research purposes and for commercial applications for the provision of in vitro research testing services. Any re-sale or any other form of 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

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

Recommended Negative Controls

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

Recommended Useful Reagents

[MOUSE ANTI HUMAN IgG \(Fc\) CH2 DOMAIN:HRP \(MCA647P\)](#)
[HUMAN ANTI TRASTUZUMAB \(HCA166\)](#)
[HUMAN ANTI TRASTUZUMAB \(HCA167\)](#)
[HUMAN ANTI TRASTUZUMAB \(HCA169\)](#)
[HUMAN ANTI TRASTUZUMAB \(HCA177\)](#)
[HISPEC ASSAY DILUENT \(BUF049A\)](#)
[HUMAN ANTI TRASTUZUMAB \(HCA176\)](#)

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