

Datasheet: HCA169 BATCH NUMBER 148926A

Description:	HUMAN ANTI TRASTUZUMAB
Specificity:	TRASTUZUMAB
Other names:	HERCEPTIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD18141
lsotype:	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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		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_11152769
Specificity	Human anti-Trastuzumab Antibody, clone AbD18141 , is a paratope specific, high affinity, anti-idiotypic antibody that specifically 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 AbD18141 is a fully human recombinant monoclonal antibody in monovalent Fab format and is suitable as a capture antibody paired with antibody clone AbD16712_hlgG1 (<u>HCA176P</u>) in a pharmacokinetic (PK) bridging ELISA, to measure free drug in preclinical research and clinical trials using patient sera.
	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	The monovalent intrinsic affinity of this antibody was measured as K_D =0.2 nM by real time, label-free molecular interaction analysis on immobilized trastuzumab.
ELISA	This product may be used as a capture antibody in a sandwich ELISA together with <u>HCA176P</u> as the detection reagent. Protocol: <u>PK bridging ELISA to measure free drug</u>
References	 Bults, P. <i>et al.</i> (2016) LC-MS/MS-Based Monitoring of In Vivo Protein Biotransformation: Quantitative Determination of Trastuzumab and Its Deamidation Products in Human Plasma. <u>Anal Chem. 88 (3): 1871-7.</u> Iwamoto, N. <i>et al.</i> (2018) Antibody drug quantitation in coexistence with anti-drug antibodies on nSMOL bioanalysis. <u>Anal Biochem. 540-541: 30-7.</u>
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: https://www.bio-rad-antibodies.com/SDS/HCA169 10094		
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 <u>HuCAL Antibodies Technical Manual</u>		

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 (HCA176) HUMAN ANTI TRASTUZUMAB (HCA168) HUMAN ANTI TRASTUZUMAB (HCA177) HISPEC ASSAY DILUENT (BUF049A) HUMAN ANTI TRASTUZUMAB (HCA166) HUMAN ANTI TRASTUZUMAB (HCA167) MOUSE ANTI HUMAN IgG (Fc) CH2 DOMAIN:HRP (MCA647P)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-r	ad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M372733:200715'

Printed on 03 May 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint