

Datasheet: HCA177P BATCH NUMBER 150162

Description:	HUMAN ANTI TRASTUZUMAB:HRP		
Specificity:	TRASTUZUMAB		
Other names:	HERCEPTIN		
Format:	HRP		
Product Type:	Monoclonal Antibody		
Clone:	AbD18018_hlgG1		
Isotype:	lgG1		
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	Human IgG1 antibody selected from the HuCAL® phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid.				
Preparation	Purified IgG prepared by affinity chromatography on Protein A				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.01% Thiomersal				
Approx. Protein Concentrations	IgG concentration 0.1mg/ml				
Immunogen	Trastuzumab				
Specificity	Human Anti-Trastuzumab Antibody, clone AbD18018_hlgG1, 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.
	Clone AbD18018_hIgG1 is a fully human recombinant monoclonal antibody with IgG1 isotype and is suitable as a reference standard in an anti-drug antibody (ADA) assay. Additionally the antibody can be used to develop a pharmacokinetic (PK) bridging assay to measure free drug in preclinical research and clinical trials using patient sera. This antibody, in full immunoglobulin format and conjugated to HRP, is recommended as the detection antibody, paired with antibody clone AbD16712 (HCA166) or clone AbD18141 (HCA169), both monovalent Fab format, as the capture antibody.
	This clone is also available in IgG4 isotype format (<u>HCA270</u>) in order to offer assay developers increased flexibility in assay design. When used as an ELISA detection antibody, a secondary anti-human IgG4 antibody is required, which can be labeled according to the needs of the user's preferred assay platform.
	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 =0.02 nM by real time, label-free molecular interaction analysis on immobilized trastuzumab.
ELISA	This product may be used as a detection reagent in a sandwich ELISA together with <u>HCA169</u> as the capture reagent.
	Protocol: PK bridging ELISA to measure free drug
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> Harth, S. <i>et al.</i> (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. <u>MAbs. 11 (1):</u>
	<u>178-190.</u> 3. 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 -70°C. 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.

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.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA177P 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 Useful Reagents

HUMAN ANTI TRASTUZUMAB (HCA166) HUMAN ANTI TRASTUZUMAB (HCA169) HISPEC ASSAY DILUENT (BUF049A)

North & South	Tel: +1 800 265 7376	Worldwide
America	Fax: +1 919 878 3751	
	Email: antibody_sales_us@bio-rad.	com

Tel: +44 (0)1865 852 700 **Europe** Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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 'M371586:200612'

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