Datasheet: HCA342 BATCH NUMBER 165633

Description:	HUMAN ANTI PERTUZUMAB
Specificity:	PERTUZUMAB
Other names:	Perjeta
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD37070
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 <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 <i>E. coli</i> . 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 chro	omatograp	hy				
Source	E.coli						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)					
Approx. Protein Concentrations	Antibody concentration 0).5 mg/ml					

Immunogen	Pertuzumab
Specificity	Human Anti-Pertuzumab Antibody, clone AbD37070 is a paratope specific, inhibitory anti-idiotypic antibody that specifically recognizes the humanized monoclonal antibody pertuzumab. It does not recognize free human epidermal growth factor receptor 2 (HER2) nor pertuzumab in complex with HER2. The antibody can be used to measure free pertuzumab or its biosimilars in patient samples.
	Clone AbD37070 is a fully human recombinant monoclonal antibody in monovalent Fab format and is suitable as a capture antibody for pertuzumab in a pharmacokinetic (PK) bridging ELISA to measure free drug when paired with clone AbD37069ia (<u>HCA345</u> , hIgG1 format) as the detection reagent.
	Pertuzumab (Perjeta) is an IgG1/kappa antibody humanized from mouse. It has been approved for the treatment of patients with metastatic HER2-positive breast cancer in combination with trastuzumab. Pertuzumab binds to the extracellular domain II of HER2 and inhibits HER2–HER3 dimerization, reducing signaling through intracellular pathways (Capelan <i>et al.</i> 2013).
	View a summary of all anti-pertuzumab antibodies
Affinity	Theintrinsic affinity of the monovalent form of Human anti Pertuzumab antibody, clone AbD37070 is $K_D = 0.7$ nM as measured by real time, label free molecular interaction analysis on immobilized Pertuzumab.
ELISA	Human anti Pertuzumab antibody, clone AbD37070 can be used in a direct or an indirect ELISA or as capture antibody for Pertuzumab in a bridging ELISA together with <u>HCA345</u> as the detection reagent. Protocol: <u>PK bridging ELISA</u> .
Further Reading	1. Capelan, M. <i>et al.</i> (2013) Pertuzumab: new hope for patients with HER2-positive breast cancer. <u>Ann Oncol. 24 (2): 273-282.</u>
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. His-tag is a trademark of EMD Biosciences. Perjeta is a trademark of Genentech, Inc.

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA342 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 <u>HuCAL Antibodies Technical Manual</u> .		

Related Products

Recommended Useful Reagents

HISPEC ASSAY DILUENT (BUF049A) LYNX RAPID HRP ANTIBODY CONJUGATION KIT (LNK002P) HUMAN ANTI PERTUZUMAB (HCA341) HUMAN ANTI PERTUZUMAB (HCA344) HUMAN ANTI PERTUZUMAB (HCA345) MOUSE ANTI PENTA HISTIDINE TAG:HRP (MCA5995P)

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-ra	d.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 'M417745:230406'

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