Datasheet: HCA200 BATCH NUMBER 153718

Description:	HUMAN ANTI HUMAN HbA1c			
Specificity:	HbA1c			
Other names:	Glycated hemoglobin, Hb1c, Hemoglobin A1c			
Format:	Purified			
Product Type:	Monoclonal Antibody			
Clone:	AbD15792			
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> .					
		Not Determined	Suggested Dilution			
	ELISA					
	Where this product has not been tested for use necessarily exclude its use in such procedures. a guide only. It is recommended that the user tit system using appropriate negative/positive cont	Suggested workin rates the product f	ng dilutions are given as			
Target Species	Human					
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 V5 tag and a double extended Strep-tag at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.					
Preparation	StrepTactin affinity chromatography					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.01% Thiomersal					
Approx. Protein Concentrations	Total protein concentration 0.5 mg/ml					

Immunogen	The immunogens used in the generation of this antibody were: A glycated peptide, corresponding to N-terminal 9 amino acids of haemoglobin beta chain coupled to carrier proteins Purified HbA1c				
External Database Links	UniProt: P68871 Related reagents Entrez Gene: 3043 HBB Related reagents				
Specificity	Human anti Human HbA1c antibody, clone AbD15792 recognizes HbA1c, i.e. hemoglobin when glycated at the N-terminal valine of the hemoglobin β chain. It does not bind to non-glycated hemoglobin. Besides binding to the normal glycated hemoglobin, it also recognizes the glycated hemoglobin variants HbD and HbE, but does not recognize the HbS or HbC variants. Elevated HbF cannot be detected due to the absence of the hemoglobin β chain. The measurement of HbA1c levels is used to identify the average plasma glucose concentration. In diabetes mellitus, higher levels of HbA1c have been associated with cardiovascular and other diseases. Levels of more than 6.5% HbA1c (48 mmol/mol) are used as a criterion to diagnose diabetes.				
Affinity	The affinity of this antibody, as measured against the immunogen, was measured as K_D =7 nM by real time, label-free molecular interaction analysis using HbA1c-BSA and HbA1c-TRF conjugates as immobilized antigen. The affinity of this antibody, as measured against purified HbA1c, was measured as K_D =54 nM by real time, label-free molecular interaction analysis using full length HbA1c as immobilized antigen.				
ELISA	This product is suitable for use in direct or indirect ELISA applications.				
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.				
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA200				

	10094
Licensed Use	For in vitro research purposes only, unless otherwise specified in writing by 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

 Mouse Anti Synthetic Peptide STREP-TAG CLASSIC (MCA2489...)

 Mouse Anti Viral V5-TAG (MCA1360...)

 Biotin, HRP

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	-rad.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 'M371613:200612'

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