

# Datasheet: HCA219

Description:	HUMAN ANTI HUMAN HbA1c				
Specificity:	HbA1c				
Other names:	HEMOGLOBIN A1C				
Format:	Purified				
Product Type:	Monoclonal Antibody				
Clone:	AbD15792_IgG1				
lsotype:	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-</u>					
	rad-antibodies.com/protocols.					
		Yes	No	Not Determined	Suggested Dilution	
	ELISA					
	Where this product has n necessarily exclude its us a guide only. It is recomm system using appropriate	se in such nended tha	procedur at the use	res. Suggested workin er titrates the product f	ng dilutions are given as	
Target Species	Human					
Product Form	Human IgG1 antibody se human cell line.This antib				rary and expressed in a	
Preparation	Purified IgG prepared by	affinity ch	romatogr	aphy on Protein A		
Source	НКВ-11					
Buffer Solution	Phosphate buffered salin	e				
Preservative Stabilisers	0.01% Thiomersal					
Approx. Protein Concentrations	Total protein concentratio	n 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 the carrier proteins BSA and TRF Purified HbA1c
External Database Links	UniProt: P68871 Related reagents   Entrez Gene: 3043 HBB Related reagents
Specificity	Human anti Human HbA1c antibody, clone AbD15792_IgG1 recognizes HbA1c, hemoglobin glycated at the N-terminal valine of the hemoglobin $\beta$ chain. It does not bind to non-glycated hamoglobin. Besides binding to the normal glycated haemoglobin. Human anti Human HbA1c antibody, clone AbD15792_IgG1 also recognizes the glycated hemoglobin variants HbD and HbE, but does not recognise the HbS or HbC variants. Elevated HbF is not detected due to the absence of the hemoglobin $\beta$ 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 disease and other diseases. Levels of more than 6.5% HbA1c (48 mmol/mol) are used as a criterion to diagnose diabetes. This antibody is also available in a Fab format ( <u>HCA200</u> ).
Affinity	The affinity of this antibody, as a monovalent fab is $K_D$ =7 nM as measured by real time, label-free molecular interaction analysis using HbA1c-BSA and HbA1c-TRF conjugates as immobilized antigen. The affinity of this antibody, as a monovalent fabis $K_D$ =54 nM as measured by real time, label-free molecular interaction analysis using full length HbA1c as immobilized antigen.
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.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf</u>
Licensed Use	For <i>in vitro</i> 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 Useful Reagents**

HUMAN ANTI HUMAN HbA1c (HCA179) HUMAN ANTI HUMAN HbA1c (HCA180) HUMAN ANTI HUMAN HbA1c (HCA181) HUMAN ANTI HUMAN HbA1c (HCA197) HUMAN ANTI HUMAN HbA1c (HCA217) HUMAN ANTI HUMAN HbA1c (HCA218)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M416713:230302'

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