

Datasheet: HCA217

Description:	HUMAN ANTI HUMAN HbA1c
Specificity:	HbA1c
Other names:	HEMOGLOBIN A1C
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD15785-IgG
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	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.

Target Species	Human
Product Form	Human IgG1 antibody selected from the HuCAL® phage display library and expressed in a human cell line. This antibody is supplied as a liquid.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
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 glycosylated 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 AbD15785-IgG** recognizes HbA1c, hemoglobin glycosylated at the N-terminal valine of the hemoglobin β chain. It does not bind to non-glycosylated hemoglobin. Besides binding to the normal glycosylated hemoglobin. Human anti Human HbA1c antibody, clone AbD15785-IgG also recognizes the glycosylated hemoglobin variants HbC, HbE, HbD and to a lesser degree HbS. Elevated HbF is not 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 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 ([HCA180](#)).

Affinity The affinity of this antibody, as a monovalent fab measured against the immunogen, was measured as $K_D=28$ 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 a monovalent fab measured against purified HbA1c, was measured as $K_D=65$ nM by real time, label-free molecular interaction analysis using full length HbA1c as immobilized antigen

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.

Shelf Life 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, Zepelinstr. 4, 82178 Puchheim, Germany.

Health And Safety Information Material Safety Datasheet documentation #10094 available at <https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf>

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 [HuCAL Antibodies Technical Manual](#)

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 \(HCA200\)](#)
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'M305376:170504'

Printed on 17 May 2017

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