Datasheet: HCA285P

BATCH NUMBER 173254

Description:	HUMAN ANTI HUMAN IgG1 (Fc):HRP
Specificity:	IgG1
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD27686
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1/100 - 1/1000

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

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL PLATINUM phage display library. Expressed in *E. coli* and purified using purified using NiNTA affinity chromatography. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. Conjugated to horseradish peroxidase (HRP) - liquid.

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.1 mg/ml

Immunogen	Recombinant human IgG1 kappa
Specificity	**Human Anti-Human IgG1 Fc Antibody clone AbD27686** is a recombinant monovalent Fab antibody, that recognizes human IgG1 Fc, with an affinity of 76 nM. It has been shown to have a greatly reduced affinity (89-fold) for IgG from cynomolgus macaque compared to human IgG1. It also has strongly reduced binding to rhesus macaque IgG. It does not recognize other human immunoglobulin isotypes (IgG2, IgG3, IgG4, IgA, IgE, IgM) or mouse IgG2a. This antibody has been generated by Bio-Rad using the HuCAL® antibody library and CysDisplay® technology. It is sold for research use, with implicit permission for use for the detection of therapeutic antibodies from samples obtained from experimental animals. When tested by Bio-Rad in an antigen capture pharmacokinetic assay format, this antibody performs similarly to Mouse Anti-Human IgG (CH2 Domain) Antibody clone R10Z8E9 (MCA5748G) in 10% cynomolgus macaque serum. It recognizes a different epitope on human IgG1 Fc than clone R10Z8E9. View a summary of anti-human IgG Fc specific antibodies for the detection of therapeutic antibodies.
Affinity	The intrinsic affinity of the monovalent form of this antibody is K_D=76 nM as measured by real time, label free molecular interaction analysis on immobilized hIgG1 kappa.
References	1. Thisted, T. *et al.* (2024) VISTA checkpoint inhibition by pH-selective antibody SNS-101 with optimized safety and pharmacokinetic profiles enhances PD-1 response. Nat Commun. 15 (1): 2917.
Storage	This product is shipped frozen. When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week.
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 registered trademark of EMD Biosciences. The Lightning Link® technology used in the creation of this product is provided under an intellectual property license from Abcam Limited. For information on purchasing a license to this technology for purposes other than research contact Abcam at partnership@abcam.com. Lightning Link® is a registered trademark of Abcam Limited.
Health And Safety Information	Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/HCA285P
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

HISPEC ASSAY DILUENT (BUF049A)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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