

Datasheet: TZA043B

Description:	HUMAN ANTI HUMAN IgG1 (Fc):Biotin
Specificity:	IgG1
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	AbD27686
Isotype:	Fab antibody
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

A bivalent human recombinant Fab (lambda light chain) generated by coupling of the monovalent SpyTagged Fab [TZA043](#) with a biotin conjugated BiSpyCatcher version 2 ([TZC002B](#)). The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ([BLP086](#)) in 5-fold molar excess to block any unreacted Catcher sites. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Source

E.coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.0095% MIT

Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

Immunogen	Recombinant human IgG1 kappa
Specificity	<p>Human Anti-Human IgG1 Fc Antibody, clone AbD27686 is a recombinant monovalent Fab antibody that specifically recognizes the human IgG1 Fc region. It does not recognize other human immunoglobulin isotypes (IgG2, IgG3, IgG4, IgA, IgE, IgM) or mouse IgG2a and it has been shown to have a greatly reduced affinity for cynomolgus macaque IgG (89-fold) and rhesus macaque compared to human IgG1.</p> <p>AbD27686 is available as a monovalent Fab antibody incorporating a SpyTag at the C-terminus end of the antibody heavy chain for conversion by the end user into alternative formats using any of the SpyCatchers available in our catalog (TZA043). It is also available as a bivalent Fab antibody already conjugated to biotin via coupling to the biotin conjugated BiSpyCatcher2 (TZC002B) under product code TZA043B. AbD27686 is also available without SpyTag as a purified antibody (HCA285) or conjugated to HRP (HCA285P).</p> <p>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.</p> <p>View a summary of anti-human IgG Fc specific antibodies for the detection of therapeutic antibodies.</p>
Affinity	The intrinsic affinity of AbD27686pab was measured as $K_D=76$ nM as measured by real time, label free molecular interaction analysis on immobilized hIgG1 kappa.
Storage	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Guarantee	12 months from date of despatch
Acknowledgements	<p>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.</p> <p>His-tag is a trademark of EMD Biosciences.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA043B</p>
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 for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at [SpyTag and SpyCatcher Products](#), 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 IgG1 \(Fc\) \(HCA285\)](#)

[HUMAN ANTI HUMAN IgG1 \(Fc\):HRP \(HCA285P\)](#)

[MOUSE ANTI HUMAN IgG \(CH2 DOMAIN\) \(MCA5748G\)](#)

[HUMAN ANTI HUMAN IgG1 \(Fc\) \(TZA043\)](#)

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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