

Datasheet: HCA050A BATCH NUMBER 147918

Description:	RECOMBINANT HUMAN IgG4 LAMBDA			
Name:	HUMAN IgG4 LAMBDA			
Format:	Purified			
Product Type:	Recombinant Protein			
Clone:	AbD00264_hlgG4			
lsotype:	IgG4 Lambda			
Quantity:	50 µg			

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> .						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen			•			
	Immunohistology - Paraffin						
	ELISA	-					
	Immunoprecipitation						
	Western Blotting						
	Where this product has not been tested for use in a particular technique necessarily exclude its use in such procedures. Suggested working diluti a guide only. It is recommended that the user titrates the product for use system using appropriate negative/positive controls.						
Product Form	Human IgG4 antibody selected from the HuCAL GOLD phage display library and expressed in a human cell line, HKB-11 - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein A						
Buffer Solution	Phosphate buffered salin	e					
Preservative Stabilisers	0.01% Thiomersal						
Approx. Protein Concentrations	Antibody concentration 0						

Immunogen	Green fluorescent protein
External Database Links	UniProt: <u>P01861</u> <u>Related reagents</u> Entrez Gene: <u>3503</u> IGHG4 <u>Related reagents</u>
RRID	AB_915465
Product Information	Recombinant Human IgG4 lambda, clone AbD00264_hIgG4 is a recombinant human IgG4 antibody with a lambda light chain.
	Clone AbD00264_hIgG4 is specific for green fluorescent protein (GFP) and has no known reactivity with mammalian proteins or other antigens. This product is recommended for use as a standard in assays designed to measure IgG4 levels, or as a control antibody when using other human antibodies of the same isotype and subclass.
	In addition to the tetrameric IgG structure, composed of two copies each of the heavy and light chains, human IgG4 forms so-called half-molecules. This species contains only one heavy and one light chain. Half-molecules can assemble with an unrelated half-molecule to form bispecific tetrameric antibody species (<u>Aalberse <i>et al.</i> 2002</u>). Half-molecules of human IgG4 preparations can be detected as an additional species under denaturing, non-reducing conditions using SDS-PAGE, size exclusion chromatography or capillary electrophoresis.
	Mutation in the core hinge region of IgG4 prevents the formation of half-molecules (<u>Bloom</u> <u><i>et al.</i> 1997</u>). In addition to the wild type recombinant, Bio-Rad also offers recombinant Human IgG4 lambda in its mutated form (<u>HCA246</u>). Recombinant Human IgG4 kappa is also available in both wild type (<u>HCA195</u>) and mutant form (<u>HCA247</u>).
Further Reading	 Aalberse, R.C. & Schuurman, J. (2002) IgG4 breaking the rules. <u>Immunology. 105 (1):</u> <u>9-19.</u> Bloom, J.W. <i>et. al.</i> (1997) Intrachain disulfide bond in the core hinge region of human IgG4. <u>Protein Sci. 6:407-415</u>
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/HCA050A 10094		
Licensed Use	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rac		
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

Goat Anti Human IgG F(ab')2 (0500-0099...) HRP Mouse Anti Human IgG (Fc) (CH2 DOMAIN) (MCA647...)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	id.com	Email: antibody_sales_uk@bio-ra	ad.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 'M371494:200612'

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