

Datasheet: HCA050 BATCH NUMBER 165634

Description:	RECOMBINANT HUMAN IgG4 LAMBDA		
Name:	HUMAN IgG4 LAMBDA		
Format:	Purified		
Product Type:	Recombinant Protein		
Clone:	AbD00264_hlgG4		
lsotype:	lgG4 Lambda		
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		ecommer	idations, please visit <u>w</u>	ww.bio-		
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen						
	Immunohistology - Paraffin						
	ELISA	-					
	Immunoprecipitation						
	Western Blotting						
	Where this product has n	ot been t	ested for	use in a particular tech	inique this does not		
	necessarily exclude its us	se in sucl	h procedu	res. Suggested working	a dilutions are given as		
	•	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.						
	system using appropriate	negative	positive				
Product Form	Human IgG4 antibody se expressed in a human ce				blay library and		
Preparation	Purified IgG prepared by	affinity c	hromatogi	raphy on Protein G			
Source	НКВ-11						
Buffer Solution	Phosphate buffered salin	е					
Preservative Stabilisers	0.09% Sodium Azide (Na	ıN ₃)					
Approx. Protein	Antibody concentration 0	.5 mg/ml					

Concentrations

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_915483			
Product Information	Recombinant Human IgG4 lambda, clone AbD00264_hIgG4 is a recombinant human IgG4 antibody with a lambda light chain.			
	Clone AbD00264_hlgG4 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 (Aalberse <i>et al.</i> 2002). 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>et al. 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	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.			

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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA050 10040		
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 <u>HuCAL Antibodies Technical Manual</u>		

Related Products

Recommended Secondary Antibodies

Mouse Anti Human IgG (Fc) (CH2 DOMAIN) (MCA647) <u>HRP</u>
Goat Anti Human IgG F(ab')2 (0500-0099)	<u>HRP</u>

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	d.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 'M417554:230406'

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