

Datasheet: HCA195 BATCH NUMBER 167310

Description:	RECOMBINANT HUMAN IgG4 KAPPA
Name:	HUMAN IgG4 KAPPA
Format:	Purified
Product Type:	Recombinant Protein
Clone:	AbD18705_hlgG4
Isotype:	IgG4 Kappa
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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	ELISA	-				
	Where this product has r necessarily exclude its u a guide only. It is recomr system using appropriate	se in such nended th	procedu at the use	res. Suggested workin er titrates the product f	g dilutions are given as	
Product Form	Human IgG4 antibody se human cell line. This ant				rary and expressed in a	
Preparation	Purified IgG prepared by	affinity ch	iromatogi	raphy on Protein A		
Source	HKB-11					
Buffer Solution	Phosphate buffered salin	ie				
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)					
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml					
Immunogen	Green fluorescent protein.					

External Database					
Links	UniProt:				
	P01834 Related reagents				
	P01861 Related reagents				
	Entrez Gene:				
	3514 IGKC Related reagents				
	3503 IGHG4 Related reagents				
Specificity	Recombinant Human IgG4 kappa, AbD18705_hIgG4 is a recombinant human IgG4				
	antibody with a kappa light chain.				
AbD18705_hIgG4 is specific for green fluorescent protein (GFP) and has no know reactivity with mammalian proteins or other antigens. This product is recommende use as a standard in assays designed to measure IgG4 levels, or as a control antil 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 et al. 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 (Bloom				
	et al. 1997). In addition to the wild type recombinant, Bio-Rad also offers recombinant				
Human IgG4 kappa in its mutated form (<u>HCA247</u>). Recombinant Human IgG4 la					
	also available in both wild type (<u>HCA050</u>) and mutant form (<u>HCA246</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.				
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.				
Health And Safety	Material Safety Datasheet documentation #10040 available at:				
Information	https://www.bio-rad-antibodies.com/SDS/HCA195				
	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 Produ	cts			
Recommended U	seful Reagents			
RECOMBINANT HUM	AN IgG4 LAMBDA (HCA050)			
RECOMBINANT HUMAN IgG4 LAMBDA (MUTANT) (HCA246)				

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@bi	o-rad.com	Email: antibody_sales_uk@bio	o-rad.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 'M420896:230706'

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RECOMBINANT HUMAN IgG4 KAPPA (MUTANT) (HCA247)