

Datasheet: HCA195 BATCH NUMBER 1801

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-</u>						
	rad-antibodies.com/proto	ocols.					
		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	ise in such mended tha	procedure at the use	es. Suggested working r titrates the product fo	g dilutions are given as		
Product Form	Human IgG4 antibody se a human cell line. This a				prary and expressed in		
Preparation	Purified IgG prepared by	affinity ch	romatogra	aphy on Protein A			
Buffer Solution	Phosphate buffered salir	ne					
Preservative Stabilisers	0.01% Thiomersal						
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml						
Immunogen	Green fluorescent protein.						
External Database Links	UniProt: P01834 Related r	reagents					

	P01861 Related reagents					
	Entrez Gene:3514IGKCRelated reagents3503IGHG4Related 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 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 (Bloom <u>et al. 1997</u>). 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 lambda is also available in both wild type (<u>HCA050</u>) and mutant form (<u>HCA246</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 #10040 available at: 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					

Related Products

Recommended Useful Reagents

RECOMBINANT HUMAN IgG4 LAMBDA (HCA050) RECOMBINANT HUMAN IgG4 LAMBDA (MUTANT) (HCA246) RECOMBINANT HUMAN IgG4 KAPPA (MUTANT) (HCA247)

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	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-ra	id.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 'M371608:200612'

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