

Datasheet: HCA395

Description:	RECOMBINANT HUMAN IgG1 LALA KAPPA ALLOTYPE G1m3		
Name:	HUMAN IgG1 KAPPA ALLOTYPE G1m3		
Format:	Purified		
Product Type:	Recombinant Protein		
Clone:	AbD18705iq		
Isotype:	IgG1 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	•			• 41• 1 4		
	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.						
Product Form	Human IgG1 antibody selected from the HuCAL phage display library and expressed in a human cell line. This antibody is supplied as a liquid.						
Preparation	Purified IgG prepared by affinity chromatography on Protein A						
Source	HKB11						
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	n					
External Database Links	UniProt:						

	P01834Related reagentsP01857Related reagents
	Entrez Gene:
	3514 IGKC Related reagents
	3500 IGHG1 Related reagents
Specificity	Recombinant Human IgG1 LALA kappa allotype G1m3, clone AbD18705iq is a recombinant human antibody with a kappa light chain, and a heavy chain belonging to the G1m3 allotype, also designated G1m(f). It contains a LALA double mutation in its Fc region (mutation of leucine residues at positions 234 and 235 into alanine residues) which results in reducing its binding to $Fc\gamma RI$, II and III my more than a 100-fold, as well as reducing its ADCC function.
	This product is a recombinant antibody with specificity for green fluorescent protein (GFP). It has no known reactivity with mammalian proteins or other antigens. It is therefore recommended as a relevant control for scientists working on the R&D of therapeutic antibodies with this engineered Fc region. It is recommended that this reagent is used at the same concentration as the test reagent.
	The main allelic forms of IgG1 are G1m(f), G1m(f,a), and G1m(z,a). The G1m(f) (or G1m3) allele is only found in Caucasoid populations, whereas the G1m(f,a) allele is common in Mongoloids, but other variants, G1m(z,a,x) and G1m(z,a,v), have also been described; for further details on IgG1 allotypes see IgG subclasses and allotypes: from structure to effector functions, and IMGT Repertoire (IG and TR) Allotypes: Human (<i>Homo sapiens</i>) IGHC.
	The following publication reviews the serologically defined human IgG allotypes and considers the potential for allotype differences to contribute to or potentiate immunogenicity; <u>Human immunoglobulin allotypes, possible implications for immunogenicity</u>
	Our range of IgG1 controls also includes <u>Recombinant Human IgG1 kappa allotype</u> <u>G1m17,1</u> , and the corresponding allotypes for IgG1 lambda. Another IgG1 control containing a N297Q mutation (mutation of the arginine residue at position 297 into a glutamine) preventing its binding to FcR1 is also available under product code <u>HCA394</u> .
	View a summary of all recombinant fully human immunoglobulin isotype controls
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/HCA395 10040
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 and further information about HuCAL recombinant antibody technology can be found in the <u>HuCAL Antibodies Technical Manual</u> .

Related Products

Recommended Useful Reagents

HUMAN IgG1-LALA-FcSpyCatcher3 (TZC027) RECOMBINANT HUMAN IgG1 N297Q KAPPA ALLOTYPE G1m3 (HCA394)

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 'M419169:230602'

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