

Datasheet: HCA413 BATCH NUMBER 167921

Description:	RECOMBINANT HUMAN IgG1 YTE KAPPA ALLOTYPE G1m3		
Name:	HUMAN IgG1 KAPPA ALLOTYPE G1m3		
Format:	Purified		
Product Type:	Recombinant Protein		
Clone:	AbD18705iu		
lsotype:	lgG1 Kappa		
Quantity:	0.1 mg		

Product Details

Applications	This product has been reported to work in the following applications. This informatio derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further				tions or personal		
		information. For general protocol recommendations, please visit <u>www.bio-</u>					
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	ELISA	•					
	Where this product has in necessarily exclude its us a guide only. It is recommission of the secommission	ise in such mended th	n procedu at the us	res. Suggested workin er titrates the product f	g dilutions are given as		
Product Form	Human lgG1 antibody se a human cell line. This a				brary and expressed in		
Preparation	Purified IgG prepared by	affinity ch	nromatog	raphy on Protein A			
Source	НКВ-11						
Buffer Solution	Phosphate buffered salir	ıe					
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)					
Approx. Protein Concentrations	Antibody concentration ().5 mg/ml					
Immunogen	Green fluorescent protei	n					

IIni	Prot:
	-101.

<u>P01834</u>	Related reagents	
<u>P01857</u>	Related reagents	

Entrez Gene:

<u>3514</u>	IGKC	Related reagents
3500	IGHG1	Related reagents

Specificity

Recombinant Human IgG1 YTE Kappa allotype G1m3, clone AbD18705iu 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 M252Y, S254T, T256E (YTE) triple mutation at the interface between the CH2 and CH3 domains of its Fc region. The introduction of the YTE mutation in the Fc region of an antibody has been shown to increase its half life by a 4-5 fold due to an increase in the antibody affinity to the neonatal Fc receptor (FcRn). It is therefore a mutation of choice for the generation of biotherapeutic antibodies.

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 (*Homo sapiens*) 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.

View a summary of all recombinant fully human immunoglobulin isotype controls

StorageThis 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 Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA413 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

RECOMBINANT HUMAN IgG1 N297Q KAPPA ALLOTYPE G1m3 (HCA394) RECOMBINANT HUMAN IgG1 LALA KAPPA ALLOTYPE G1m3 (HCA395) RECOMBINANT HUMAN IgG1 KAPPA ALLOTYPE G1m3 (HCA192)

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	d.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 'M430058:240502'

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