

Datasheet: HCA337

Description:	RECOMBINANT HUMAN IgG2/4 KAPPA
Name:	HUMAN IgG2/4
Format:	Purified
Product Type:	Recombinant Protein
Clone:	AbD18705io
Isotype:	IgG2 Kappa, 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

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 IgG2/4 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.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Green fluorescent protein
Specificity	Recombinant Human IgG2/4 kappa, clone AbD18705io , contains a kappa light chain and a hybrid heavy chain constant region combining sequences from IgG2 and IgG4. This product is a recombinant fully human 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 control reagent for studies using IgG2/4 CH hybrid antibodies.

The heavy chain constant region of Recombinant Human IgG2/4 kappa consists of a fusion construct:

CH1, Hinge and N-terminal of CH2 identical to human IgG2 constant region (IMGT allele IGHG2*01)

C-terminal of CH2 and CH3 identical to human IgG4 constant region (IMGT allele IGHG4*04)

IgG2 and IgG4 are the least effector potent immunoglobulin subclasses, and have been combined in the design of antibodies that block their target without the induction of effector functions. An example is the therapeutic monoclonal antibody drug eculizumab (Soliris), which is used clinically to block complement factor C5, and is approved to treat the rare diseases paroxysmal nocturnal hemoglobinuria (PNH) and atypical hemolytic uremic syndrome (aHUS).

[View Human Anti-C5 Antibody \(Eculizumab Biosimilar\)](#)

[View the full range of 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.
Guarantee	12 months from date of despatch
Acknowledgements	Sold under license of U.S. Patents 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
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 HuCAL Antibodies Technical Manual

Related Products

Recommended Useful Reagents

[HUMAN ANTI C5 \(ECULIZUMAB BIOSIMILAR\) \(MCA6145\)](#)

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-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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