

Datasheet: HCA337

**BATCH NUMBER 157770**

<b>Description:</b>	RECOMBINANT HUMAN IgG2/4 KAPPA
<b>Name:</b>	HUMAN IgG2/4
<b>Format:</b>	Purified
<b>Product Type:</b>	Recombinant Protein
<b>Clone:</b>	AbD18705io
<b>Isotype:</b>	IgG2 Kappa, IgG4 Kappa
<b>Quantity:</b>	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](http://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.

<b>Product Form</b>	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.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Thiomersal
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Green fluorescent protein
<b>Specificity</b>	<b>Recombinant Human IgG2/4 kappa, clone AbD18705io</b> , 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 alleleIGHG2\*01)

C-terminal of CH2 and CH3 identical to human IgG4 constant region (IMGT alleleIGHG4\*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](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**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.

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**Health And Safety Information** Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA337>  
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**Licensed Use** For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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