

## Datasheet: HCA319

**BATCH NUMBER 158336**

<b>Description:</b>	RECOMBINANT HUMAN IgG1 KAPPA ALLOTYPE G1m17,1
<b>Name:</b>	HUMAN IgG1 KAPPA ALLOTYPE G1m17,1
<b>Format:</b>	Purified
<b>Product Type:</b>	Recombinant Protein
<b>Clone:</b>	AbD18705il
<b>Isotype:</b>	IgG1 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 IgG1 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 IgG1 kappa allotype G1m17,1, clone AbD18705il</b> is a recombinant human antibody with a kappa light chain, and heavy chain belonging to the G1m17,1 allotype, also designated G1m(z,a).

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 control reagent for assays where this immunoglobulin is measured, or when using other human IgG1 antibodies of the same isotype or allotype. It is recommended that this reagent is used at the same concentration as the test reagent.

The main allelic forms of IgG1 are G1m(z,a), G1m(f), and G1m(f,a). The G1m(z,a) (or G1m17,1) allele is found in Caucasoid, Negroid and Mongoloid populations, whereas the G1m3 allele is only found in Caucasoid; 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; [Human immunoglobulin allotypes, possible implications for immunogenicity](#)

Our range of IgG1 controls also includes [Recombinant Human IgG1 kappa allotype G1m3](#), and the corresponding allotypes for IgG1 lambda.

[View a summary of all recombinant fully human immunoglobulin isotype controls](#)

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<b>Storage</b>	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.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Acknowledgements</b>	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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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10094 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA319">https://www.bio-rad-antibodies.com/SDS/HCA319</a> 10094
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<b>Licensed Use</b>	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.
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<b>Regulatory</b>	For research purposes only
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<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>
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## Related Products

## Recommended Useful Reagents

[RECOMBINANT HUMAN IgG1 KAPPA ALLOTYPE G1m3 \(HCA192\)](#)

[RECOMBINANT HUMAN IgG1 LAMBDA ALLOTYPE G1m3 \(HCA049\)](#)

[RECOMBINANT HUMAN IgG1 LAMBDA ALLOTYPE G1m17,1 \(HCA318\)](#)

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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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