

Datasheet: HCA195G

BATCH NUMBER 150377

Description:	RECOMBINANT HUMAN IgG4 KAPPA
Name:	HUMAN IgG4 KAPPA
Format:	Purified
Product Type:	Recombinant Protein
Clone:	AbD18705_hlgG4
Isotype:	IgG4 Kappa
Quantity:	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 IgG4 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 1.0 mg/ml
Immunogen	Green fluorescent protein.

External Database Links

UniProt:

[P01834](http://www.uniprot.org/entry/P01834)

[Related reagents](#)

Entrez Gene:

[3514](#) IGKC [Related reagents](#)

[3503](#) IGHG4 [Related reagents](#)

Specificity	<p>Recombinant Human IgG4 kappa, AbD18705_hlgG4 is a recombinant human IgG4 antibody with a kappa light chain.</p> <p>AbD18705_hlgG4 is specific for green fluorescent protein (GFP) and has no known reactivity with mammalian proteins or other antigens. This product is recommended for use as a standard in assays designed to measure IgG4 levels, or as a control antibody when using other human antibodies of the same isotype and subclass.</p> <p>In addition to the tetrameric IgG structure, composed of two copies each of the heavy and light chains, human IgG4 forms so-called half-molecules. This species contains only one heavy and one light chain. Half-molecules can assemble with an unrelated half-molecule to form bispecific tetrameric antibody species (Aalberse et al. 2002). Half-molecules of human IgG4 preparations can be detected as an additional species under denaturing, non-reducing conditions using SDS-PAGE, size exclusion chromatography or capillary electrophoresis.</p> <p>Mutation in the core hinge region of IgG4 prevents the formation of half-molecules (Bloom et al. 1997). In addition to the wild type recombinant, Bio-Rad also offers recombinant Human IgG4 kappa in its mutated form (HCA247). Recombinant Human IgG4 lambda is also available in both wild type (HCA050) and mutant form (HCA246).</p>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
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.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA195G10094
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

Related Products

Recommended Useful Reagents

[RECOMBINANT HUMAN IgG4 LAMBDA \(HCA050\)](#)

[RECOMBINANT HUMAN IgG4 LAMBDA \(MUTANT\) \(HCA246\)](#)

[RECOMBINANT HUMAN IgG4 KAPPA \(MUTANT\) \(HCA247\)](#)

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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

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