

Datasheet: HCA195 BATCH NUMBER 167310

| Description: | RECOMBINANT HUMAN IgG4 KAPPA |
|---------------|------------------------------|
| Name: | HUMAN IgG4 KAPPA |
| Format: | Purified |
| Product Type: | Recombinant Protein |
| Clone: | AbD18705_hlgG4 |
| Isotype: | 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 <u>www.bio-rad-antibodies.com/protocols</u> . | | | | | |
|-----------------------------------|--|-------------------------|-----------------------|--|--------------------------|--|
| | | | | | | |
| | | Yes | No | Not Determined | Suggested Dilution | |
| | ELISA | - | | | | |
| | Where this product has r necessarily exclude its u a guide only. It is recomr system using appropriate | se in such nended th | procedu at the use | res. Suggested workin er titrates the product f | g dilutions are given as | |
| Product Form | Human IgG4 antibody se human cell line. This ant | | | | rary and expressed in a | |
| Preparation | Purified IgG prepared by | affinity ch | iromatogi | raphy on Protein A | | |
| Source | HKB-11 | | | | | |
| Buffer Solution | Phosphate buffered salin | ie | | | | |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) | | | | | |
| Approx. Protein Concentrations | Antibody concentration 0.5 mg/ml | | | | | |
| Immunogen | Green fluorescent protein. | | | | | |

| External Database | | | | | |
|--|---|--|--|--|--|
| Links | UniProt: | | | | |
| | P01834 Related reagents | | | | |
| | P01861 Related reagents | | | | |
| | Entrez Gene: | | | | |
| | 3514 IGKC Related reagents | | | | |
| | 3503 IGHG4 Related reagents | | | | |
| | | | | | |
| Specificity | Recombinant Human IgG4 kappa, AbD18705_hIgG4 is a recombinant human IgG4 | | | | |
| | antibody with a kappa light chain. | | | | |
| AbD18705_hIgG4 is specific for green fluorescent protein (GFP) and has no know reactivity with mammalian proteins or other antigens. This product is recommende use as a standard in assays designed to measure IgG4 levels, or as a control antil when using other human antibodies of the same isotype and subclass. | | | | | |
| | | | | | |
| | 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 (<u>Aalberse et al. 2002</u>). 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. | | | | |
| | 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 (<u>HCA247</u>). Recombinant Human IgG4 la | | | | | |
| | also available in both wild type (<u>HCA050</u>) and mutant form (<u>HCA246</u>). | | | | |
| 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 | 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 | Material Safety Datasheet documentation #10040 available at: | | | | |
| Information | https://www.bio-rad-antibodies.com/SDS/HCA195 | | | | |
| | 10040 | | | | |
| 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 <u>HuCAL Antibodies Technical Manual</u> . | | | |
| Related Produ | cts | | | |
| Recommended U | seful Reagents | | | |
| RECOMBINANT HUM | AN IgG4 LAMBDA (HCA050) | | | |
| RECOMBINANT HUMAN IgG4 LAMBDA (MUTANT) (HCA246) | | | | |

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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 'M420896:230706'

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RECOMBINANT HUMAN IgG4 KAPPA (MUTANT) (HCA247)