

Datasheet: HCA050

| Name:HUMAN IgG4 LAMBDAFormat:PurifiedProduct Type:Recombinant ProteinClone:AbD00264_hIgG4Isotype:IgG4 Lambda | cription: RECOMBINANT HUMAN IgG4 LAMBDA | | | |
|--|---|---------------------|--|--|
| Product Type:Recombinant ProteinClone:AbD00264_hlgG4Isotype:lgG4 Lambda | ame: | HUMAN IgG4 LAMBDA | | |
| Clone: AbD00264_hlgG4 Isotype: IgG4 Lambda | ormat: | Purified | | |
| Isotype: IgG4 Lambda | roduct Type: | Recombinant Protein | | |
| | one: | AbD00264_hlgG4 | | |
| | otype: | lgG4 Lambda | | |
| Quantity: 0.1 mg | uantity: | 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 | | | | | | |
| | Flow Cytometry | | | | | | |
| | Immunohistology - Frozen | | | • | | | |
| | Immunohistology - Paraffin | | | • | | | |
| | ELISA | • | | | | | |
| | Immunoprecipitation | | | • | | | |
| Western Blotting | | | | | | | |
| | Where this product has n | iot been t | ested for ι | use in a particular tech | nique this does not | | |
| | necessarily exclude its us | se in sucł | n procedur | es. Suggested workin | g 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 GOLD phage display library and expressed in a human cell line, HKB-11 - liquid. | | | | | | |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G | | | | | | |
| Source | HKB-11 | | | | | | |
| Buffer Solution | Phosphate buffered saline | | | | | | |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) | | | | | | |
| Approx. Protein Concentrations | Antibody concentration 0 | | | | | | |

| Immunogen | Green fluorescent protein |
|----------------------------|--|
| External Database Links | UniProt: P01861 Related reagents Entrez Gene: <u>3503</u> IGHG4 <u>Related reagents</u> |
| RRID | AB_915483 |
| Product Information | Recombinant Human IgG4 lambda, clone AbD00264_hIgG4 is a recombinant human IgG4 antibody with a lambda light chain. |
| | Clone AbD00264_hIgG4 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. |
| | 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 <i>et al.</i> 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 (<u>Bloom</u> <u><i>et al.</i> 1997</u>). In addition to the wild type recombinant, Bio-Rad also offers recombinant Human IgG4 lambda in its mutated form (<u>HCA246</u>). Recombinant Human IgG4 kappa is also available in both wild type (<u>HCA195</u>) and mutant form (<u>HCA247</u>). |
| Further Reading | Aalberse, R.C. & Schuurman, J. (2002) IgG4 breaking the rules. <u>Immunology. 105 (1):</u> <u>9-19.</u> Bloom, J.W. <i>et. al.</i> (1997) Intrachain disulfide bond in the core hinge region of human IgG4. <u>Protein Sci. 6:407-415</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 Information | Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA050 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 Products

Recommended Secondary Antibodies

| Goat Anti Human IgG F(ab')2 (0500-0099) <u>HRP</u> Mouse Anti Human IgG (Fc) (CH2 DOMAIN) (MCA647) <u>HRP</u> | | | | | | | |
|--|--|-----------|--|--------------------|--|--|--|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio | Europe -rad.com | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com | | |
| To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M428273:240301' | | | | | | | |
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