

Datasheet: HCA271

BATCH NUMBER 1610

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| Description: | HUMAN ANTI ADALIMUMAB |
| Specificity: | ADALIMUMAB |
| Other names: | HUMIRA® |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | AbD18655_hIgE |
| Isotype: | IgE |
| 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 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.

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| Product Form | Human IgE antibody (lambda light chain) selected from the HuCAL® phage display library and expressed in a human cell line. This antibody is supplied as a liquid. |
| Preparation | Purified IgE prepared by affinity chromatography |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.01% Thiomersal |
| Approx. Protein Concentrations | Antibody concentration 0.5 mg/ml. |
| Immunogen | Adalimumab (Humira®) |
| Specificity | Human anti Adalimumab, clone AbD18655_hIgE , is an ultra-high affinity, recombinant |

anti-idiotypic antibody that specifically recognizes adalimumab monoclonal antibody and inhibits the binding of adalimumab to its target, TNF α . This antibody is derived from the same parent clone as [HCA204](#) and has been converted to an IgE isotype.

Repeated administration of biotherapeutic drugs can result in the induction of anti-drug antibodies (ADAs), which may affect efficacy of the drug and may cause adverse events including hypersensitivity reactions. Most ADAs have isotype IgG, but ADAs with isotype IgE can potentially elicit anaphylactic reactions. The FDA draft guidance for immunogenicity testing of therapeutic proteins indicates that where the risk of anaphylaxis is a concern, assays should be developed to investigate ADAs with IgE isotype.

Clone AbD18655_hIgE is a fully human antibody with isotype IgE, ideal for use as a reference standard in an ELISA to measure IgE ADAs in patient serum.

Adalimumab (branded as Humira®) is a fully human monoclonal antibody (IgG1/kappa) approved for the treatment of ankylosing spondylitis, Crohn's disease, psoriasis and several forms of arthritis. The antibody is specific for TNF α , and acts by blocking the activation of TNF receptors by TNF α . This inactivation down-regulates the inflammatory reactions associated with autoimmune diseases.

[View a summary of all anti-adalimumab antibodies.](#)

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| Affinity | The monovalent intrinsic affinity of this antibody was measured as $K_D=0.06$ nM by real time, label-free molecular interaction analysis on immobilized adalimumab |
| ELISA | This product may be used in an indirect ELISA. This antibody is fully human and can be used as a reference standard in an ADA assay. |
| Further Reading | 1. Wu, Y., <i>et al.</i> (2013) An electrochemiluminescence (ECL)-based assay for the specific detection of anti-drug antibodies of the IgE isotype. J Pharm Biomed Anal. 86: 73-81. 2. Puxeddu, I., <i>et al.</i> (2016) Hypersensitivity reactions during treatment with biological agents. Clin Exp Rheumatol.34: 129-32. |
| Storage | Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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. |
| 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. Humira is a registered trademark of Abbott Laboratories. |
| Health And Safety Information | Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA271 |

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| Licensed Use | For in vitro research purposes and for commercial applications for the provision of in vitro testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad. |
| Regulatory | For research purposes only |
| Technical Advice | Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual |

Related Products

Recommended Secondary Antibodies

Mouse Anti Human IgE (MCA2116...) [HRP](#)

Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049B\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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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
'M371707:200612'

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