

Datasheet: HCA061

BATCH NUMBER 165212

Description:	HUMAN ANTI RITUXIMAB
Specificity:	RITUXIMAB
Other names:	MabThera®, Rituxan®
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD02842
Isotype:	HuCAL Fab bivalent
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	▪			1/100

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

A bivalent human recombinant Fab (lambda light chain) selected from the HuCAL GOLD phage display library. Expressed in *E. coli* and purified using metal chelate affinity chromatography. This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain - liquid.

Preparation

Metal chelate affinity chromatography

Source

E. coli

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Rituximab

RRID AB_915387

Specificity **Human Anti-Rituximab Antibody, clone AbD02842**, is a recombinant, anti-idiotypic antibody in bivalent Fab format that specifically recognizes the monoclonal antibody drug rituximab and inhibits it binding to its target, CD20. The antibody can be used to measure the levels of rituximab and biosimilar products in bioanalytical assays.

Rituximab (reference product branded as Rituxan) is a chimeric mouse/human monoclonal antibody approved for the treatment of certain autoimmune diseases and cancer, including non-Hodgkin's lymphoma, chronic lymphocytic leukemia and rheumatoid arthritis. The antibody is specific for the cell surface protein CD20, which is widely expressed on B cells. Through three different mechanisms of action it eliminates B cells from the body, enabling the development of a new population of healthy B cells.

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

Affinity The intrinsic affinity of the monovalent form of this antibody is $K_D=4.9$ nM as measured by real time, label-free molecular interaction analysis on immobilized Rituximab.

ELISA In its HRP conjugated format ([HCA061P](#)), this product may be used as a detection reagent in a sandwich ELISA.
Protocol: [PK bridging ELISA](#) to measure free drug.

References 1. Warncke, M. *et al.* (2012) Different adaptations of IgG effector function in human and nonhuman primates and implications for therapeutic antibody treatment. [J Immunol. 188: 4405-11.](#)

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

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Rituxan® is a registered trademark of Biogen Idec/Genentech in the USA.
MabThera® is a registered trademark of Roche in Europe.
His-tag is a registered trademark of EMD Biosciences.

Health And Safety Material Safety Datasheet documentation #10040 available at:

Information <https://www.bio-rad-antibodies.com/SDS/HCA061>
10040

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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 Synthetic Peptide HISTIDINE TAG (MCA5995...) [HRP](#)

Mouse Anti Human C-MYC (MCA2200...) [HRP](#)

Goat Anti Human IgG F(ab')₂ (0500-0099...) [HRP](#)

Recommended Useful Reagents

[RAT ANTI RITUXIMAB \(MCA2260\)](#)

[RAT ANTI RITUXIMAB:FITC \(MCA2260F\)](#)

[HUMAN ANTI RITUXIMAB \(HCA186\)](#)

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