Datasheet: HCA186G

BATCH NUMBER 1709

Description:	HUMAN ANTI RITUXIMAB
Specificity:	RITUXIMAB
Other names:	MabThera, Rituxan
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD18423
Isotype:	HuCAL Fab monovalent
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

A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL® phage display library, expressed in *E. coli.* The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.01% Thiomersal

Approx. Protein Concentrations

Antibody concentration 1.0 mg/ml

Immunogen

Rituximab

Specificity	**Human Anti-Rituximab Antibody, clone AbD18423** is a recombinant, anti-idiotypic antibody in monovalent 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. This antibody may be used as the capture antibody in a pharmacokinetic bridging ELISA in conjunction with MCA2260 as the detection antibody. 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 this antibody was measured as K_D=0.13 nM by real time, label-free molecular interaction analysis on immobilized rituximab.
ELISA	This product may be used as a capture antibody in a sandwich ELISA together with MCA2260P as the detection reagent. Protocol: PK bridging ELISA to measure free drug
References	1. Komori, M. *et al.* (2016) Insufficient disease inhibition by intrathecal rituximab in progressive multiple sclerosis. Ann Clin Transl Neurol. 3 (3): 166-79.
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. His-tag is a registered trademark of EMD Biosciences.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: https://www.bio-rad-antibodies.com/SDS/HCA186G 10094
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 Useful Reagents

RAT ANTI RITUXIMAB (MCA2260)
RAT ANTI RITUXIMAB:FITC (MCA2260F)
HUMAN ANTI RITUXIMAB (HCA061)
HUMAN ANTI RITUXIMAB (HCA062)
RAT ANTI RITUXIMAB:HRP (MCA2260P)
MOUSE ANTI PENTA HISTIDINE TAG:HRP (MCA5995P)

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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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