

RITUXIMAB Antibody

RAT ANTI RITUXIMAB

CATALOG #
AAA49660

APPLICATIONS
ELISA, Flow Cytometry, Functional Assay

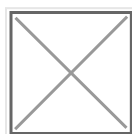
PRODUCT SYNONYMS

RITUXIMAB; RAT ANTI RITUXIMAB; MabThera; Rituxan; anti-RITUXIMAB antibody

PRODUCT SPECIFICATIONS

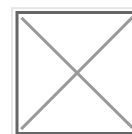
Isotype	IgG2a
Clone Number	MB2A4
Specificity	RITUXIMAB
Form/Format	Purified; Purified IgG - liquid; TRIS buffered saline
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Applicable Applications for anti-RITUXIMAB antibody	ELISA, FCM/FACS (Flow Cytometry)
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	F(ab) ₂ fragment of Rituximab
Fusion Partners	Spleen cells from immunised rats were fused with cells of the NS-1 mouse myeloma cell line
Preparation and Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

IMAGES



Application Data

Detection of Rituximab spiked into 10% human serum by sandwich ELISA. Human anti Rituximab (HCA186) was used as the coating antibody and detection was performed by adding HRP conjugated anti-Rituximab antibody AAA49660. Data are shown as the mean of three independent measurements



Application Data

Detection of Rituximab in direct ELISA. Rituximab was used as the coating reagent followed by Rat anti Rituximab:HRP as the detection antibody

ADDITIONAL INFORMATION

Related Product Information for anti-RITUXIMAB antibody	RAT ANTI RITUXIMAB Rat Anti-Rituximab Antibody, clone MB2A4, is an anti-idiotypic antibody that specifically recognizes the monoclonal antibody drug rituximab. The antibody can be used to measure the levels of rituximab and biosimilar products in bioanalytical assays. Rat Anti-Rituximab Antibody, clone MB2A4, is specific for rituximab and does not recognize other CD20 antibodies. Clone MB2A4 has been used in ELISA to monitor the levels of rituximab in patient serum following therapy (Cragg et al. 2004 and Hampson et al. 2010). Clone MB2A4 has been used to detect rituximab bound to the surface of the Raji B cell line, however detection of rituximab bound in vivo to B-CLL cells has not been demonstrated. It is possible that complement deposition on rituximab opsonised cells inhibits binding of the Anti-Rituximab Antibody to cell bound rituximab (Beum et al. 2004). Inhibition experiments carried out with Daudi cells demonstrated that this antibody is inhibitory at a ratio of 5:1 antibody:rituximab, but does not inhibit rituximab binding to CD20 at a ratio of 1:1. 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.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/antibody/rituximab/49660>