

Rat RITUXIMAB Monoclonal Antibody | anti-RITUXIMAB antibody

Rat Anti RITUXIMAB

CATALOG # AAA50341	HOST Rat	APPLICATIONS Flow Cytometry, Functional Assay, ELISA
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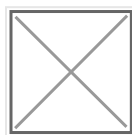
PRODUCT SYNONYMS

RITUXIMAB; Monoclonal Antibody; Rat Anti RITUXIMAB; Rituximab antibody (MB2A4); anti-RITUXIMAB antibody

PRODUCT SPECIFICATIONS

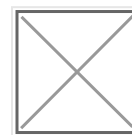
Host	Rat
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	MB2A4
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Liquid; TRIS Buffered Saline
Concentration	1.0 mg/ml (varies by lot)
Applicable Applications for anti-RITUXIMAB antibody	FCM/FACS (Flow Cytometry), ELISA
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.
Preservative Stabilizers	Pack Size: 0.2 mg 0.09% Sodium Azide (NaN ₃) Pack Size: 2 mg 0.09% Sodium Azide (NaN ₃)
Preparation and Storage	Store at 4 degree C or at -20 degree 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

Inhibition of rituximab binding to CD20 by Human Anti-Rituximab Antibody Figure A. PE conjugated rituximab pre-incubated for 1h with Rat Anti-Rituximab Antibody, clone MB2A4 (red) or Rat IgG2a isotype control (grey) in ratio 1:1. Figure B. PE conjugated rituximab pre-incubated for 1h with Rat Anti-Rituximab Antibody, clone MB2A4 (red) or Rat IgG2a isotype control (grey) in ratio 5:1 (Anti-Rituximab or isotype:rituximab). All experiments performed on Daudi cell line expressing CD20 and incubated for 30 min with the antibody mix.



Application Data

Human Anti-Rituximab Antibody bridging ELISA for Pharmacokinetic (PK) assay development A microtiter plate was coated overnight with Human Anti-Rituximab Antibody, clone AbD18423 (HCA186) at a concentration of 1 ug/ml. After washing and blocking with PBST+5% BSA, 10% Human Serum was added spiked with increasing concentrations of rituximab. Detection was performed using Rat Anti-Rituximab:HRP Antibody, clone MB2A4 at a concentration of 3 ug/ml in HISPEC Assay Diluent (BUF049A) and QuantaBlu Fluorogenic Peroxidase Substrate. Data are shown as the mean of three independent measurements.

ADDITIONAL INFORMATION

Related Product Information for anti-RITUXIMAB antibody	Description: Rat anti-rituximab antibody, clone MB2A4, recognizes the monoclonal antibody rituximab, which targets CD20. This anti-rituximab antibody is highly specific and ideal for bioanalytical assay development (PK, PD, ADA assays) in preclinical R&D and clinical trials. Summary: 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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rituximab-antibody-clone-mb2a4-flow-cytometry-elisa/50341>