Anti-Rituximab Antibody (AY36) (recommended for ADA assay)

Catalog # RIB-Y36

Source

Anti-Rituximab Antibodies (recommended for ADA assay) antibody is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with Rituximab.

Isotype

Mouse IgG1/kappa

Specificity

Recognizes Rituximab specifically, no cross reactivity with other humanized antibodies.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in
Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

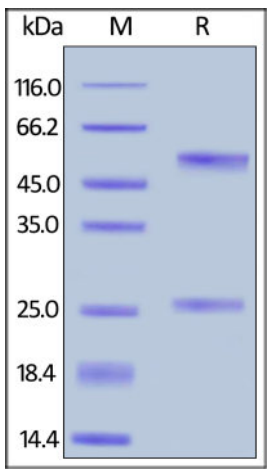
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

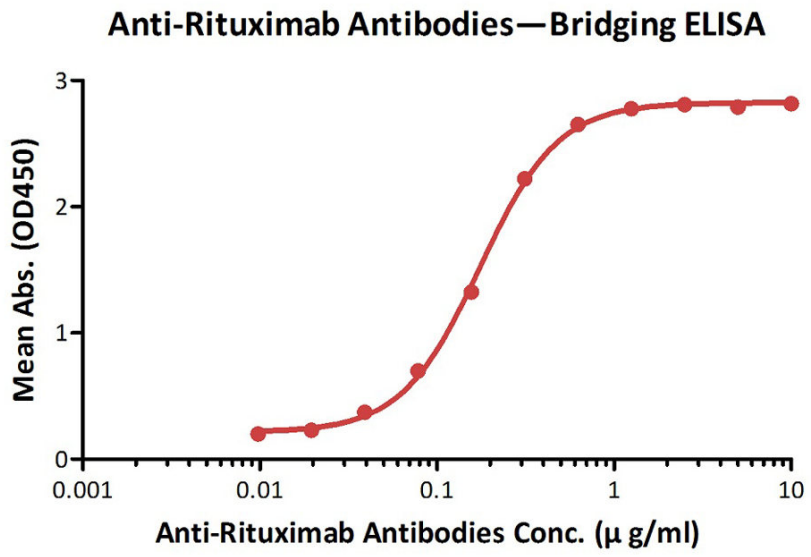
- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 years under sterile conditions after reconstitution.

SDS-PAGE

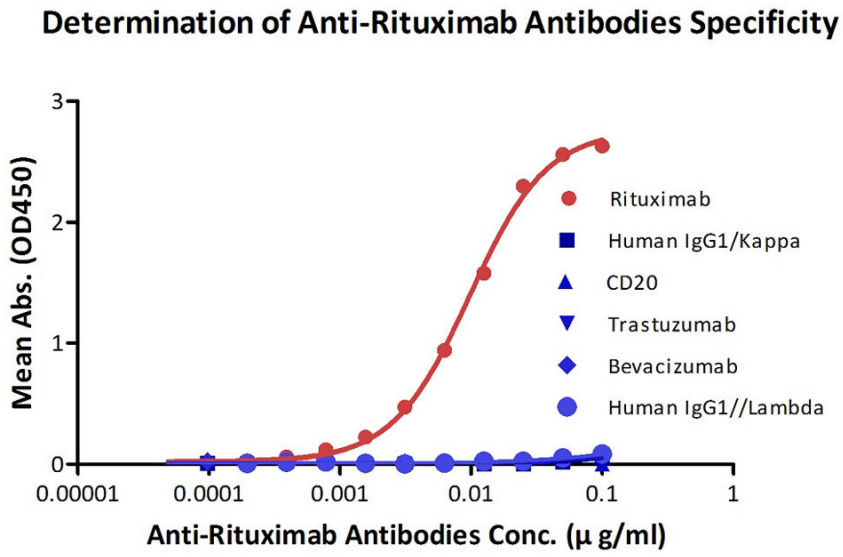


Anti-Rituximab Antibody (AY36) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-Elisa

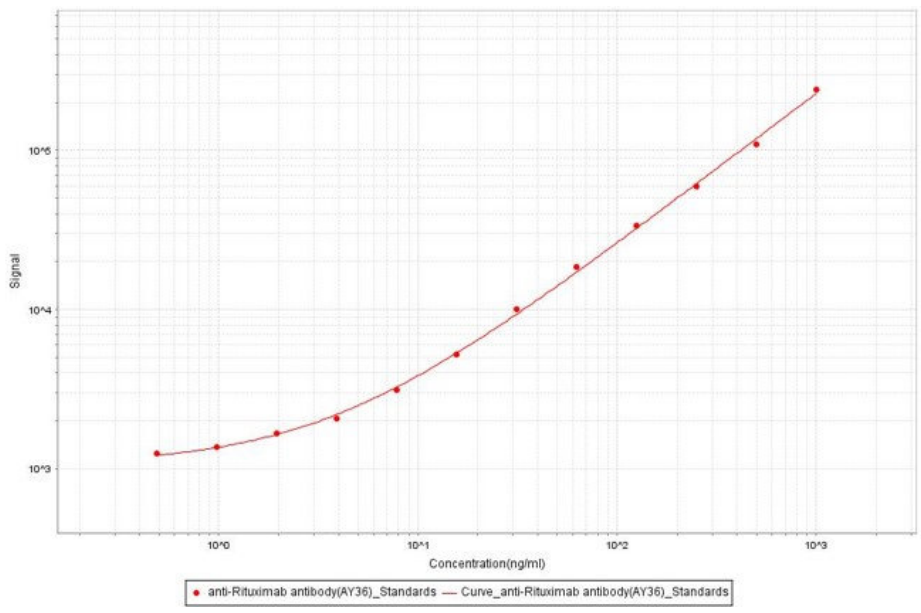


Anti-Rituximab Antibodies bridging ELISA for Anti-Drug Antibody (ADA) assay development.Immobilized rituximab at 1 μg/mL, add increasing concentrations of Anti-Rituximab Antibody (AY36) (Cat. No. RIB-Y36, 10% human serum) and then add biotinylated rituximab at 2 μg/mL. Detection was performed using HRP-conjugated streptavidin with a sensitivity of 9.7 ng/mL.



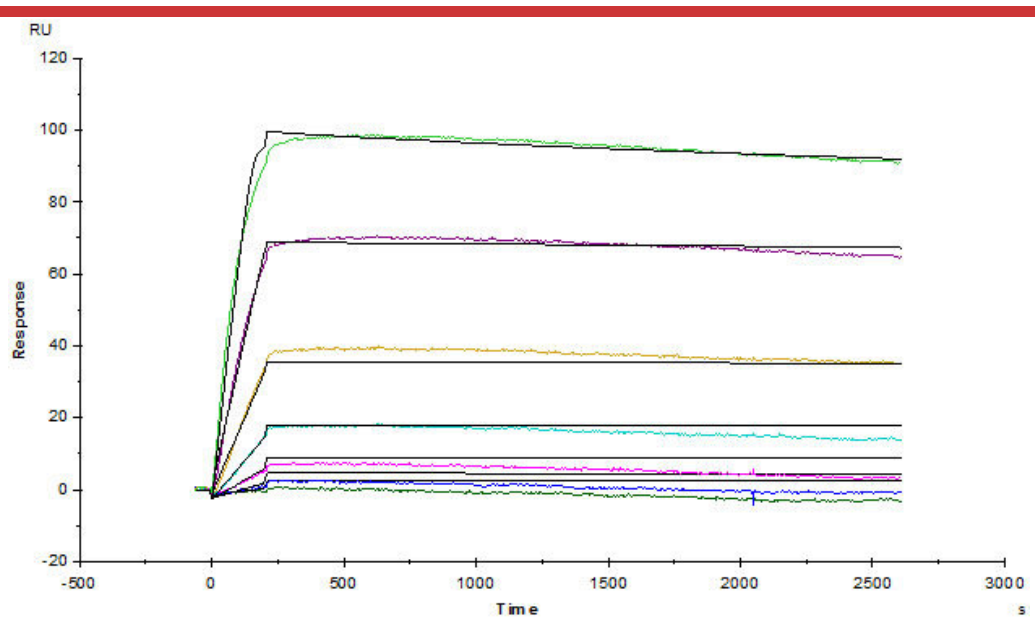
Demonstration of the specificity of Anti-Rituximab Antibody (AY36) (Cat. No. RIB-Y36) to the rituximab.

Bioactivity-MSD



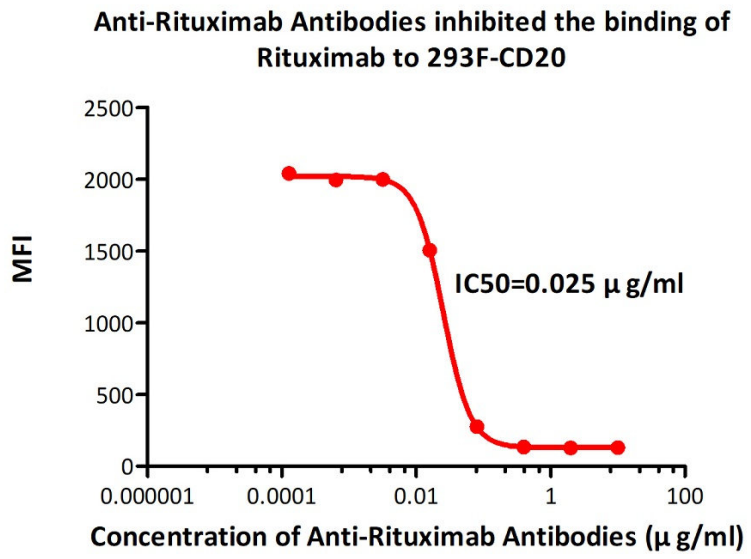
Anti-Rituximab Antibodies bridging MSD for Anti-Drug Antibody (ADA) assay development. Added the mix solution (biotinylated Rituximab at 5 μg/mL, SULFO-Rituximab at 5 μg/mL and increasing concentrations of Anti-Rituximab Antibody (AY36) (Cat. No. RIB-Y36, 100% human serum). Detection was performed using MSD Assay with a sensitivity of 0.97 ng/mL.

Bioactivity-SPR



Anti-Rituximab Antibody (AY36) (mouse IgG1, Cat. No. RIB-Y36) captured on CM5 chip via anti-mouse antibodies surface, can bind human rituximab with an affinity constant of 0.01 nM.

Bioactivity-FACS



FACS analysis shows that the binding of rituximab to 293F overexpressing CD20 was inhibited by increasing concentration of Anti-Rituximab Antibody (AY36) (Cat. No. RIB-Y36). The concentration of rituximab used is 10 ng/ml. The IC50 is 0.025 μg/ml (Routinely tested).

Background

Rituxan is a genetically engineered chimeric murine/human monoclonal antibody directed against the CD20 antigen found on the surface of normal and malignant B lymphocytes. The antibody is an IgG1 kappa immunoglobulin containing murine light- and heavy-chain variable region sequences and human constant region sequences. Rituximab is composed of two heavy chains of 451 amino acids and two light chains of 213 amino acids

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.