Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified)

Catalog # DM1-BLY73

Source

Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 antibody is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with DM-1.

Isotype

Mouse IgG1/kappa

Specificity

This product is a specific antibody specifically reacts with DM-1.

Application

ELISA

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 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

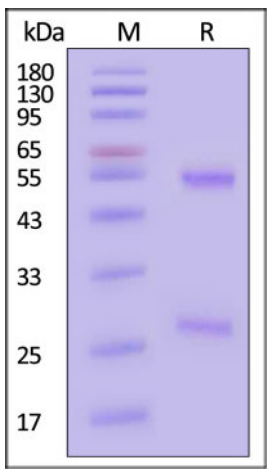
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

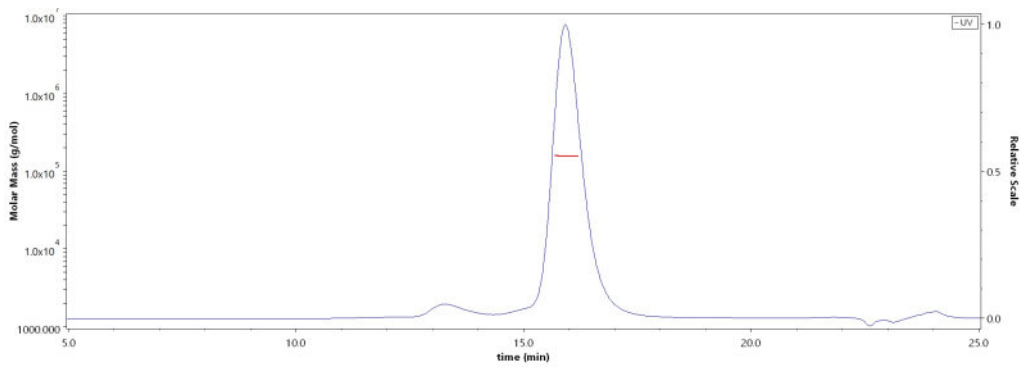
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



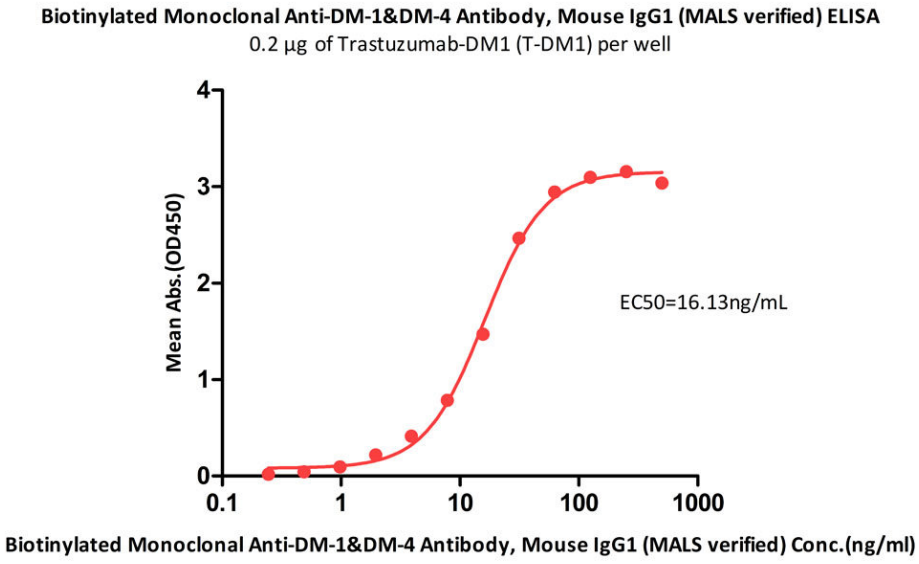
Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS

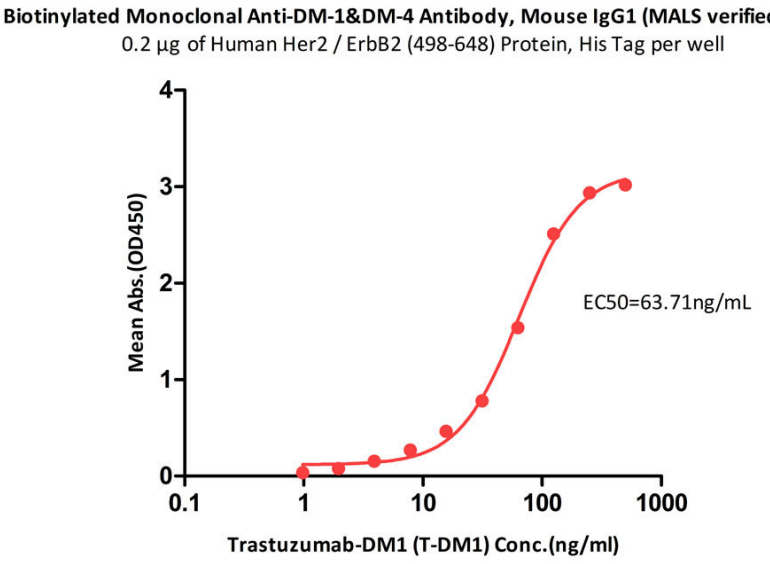


The purity of Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (Cat. No. DM1-BLY73) is more than 90% and the molecular weight of this protein is around 140-160 kDa verified by SEC-MALS.
Report

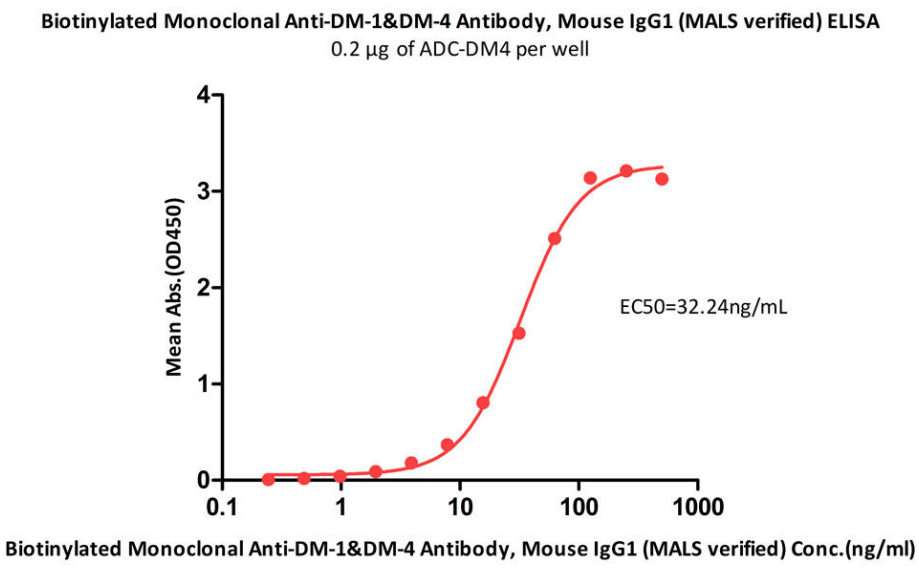
Bioactivity-Elisa



Immobilized Trastuzumab-DM1 (T-DM1) at 2 μg/mL (100 μL/well) can bind Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) (Cat. No. DM1-BLY73) with a linear range of 0.98-31.25 ng/mL (QC tested).



Immobilized Human Her2 / ErbB2 (498-648) Protein, His Tag (Cat. No. HE2-H52H4) at 2 μg/mL, add increasing concentrations of Trastuzumab-DM1 (T-DM1), and then add Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) (Cat. No. DM1-BLY73) at 0.5 μg/mL. Detection was performed using HRP-conjugated streptavidin with sensitivity of 1.95 ng/mL (Routiney tested).



Immobilized ADC-DM4 at 2 μg/mL (100 μL/well) can bind Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) (Cat. No. DM1-BLY73) with a linear range of 1.95-62.5 ng/mL (Routiney tested).

Background

Mertansine (DM-1) is a tubulin inhibitor that binds to the ends of microtubules and inhibits microtubule dynamics. DM-1(Mertansine) has antitumor activity and functions as a regulator of tubulin. It is an alpha-amino acid ester, a carbamate, an epoxide, an organic heterocyclic tetracyclic compound, an organochlorine compound, a mercaptan, and a maydenin alkaloid. DM-1, derived from Mydenin, is a cytotoxic component of antibody-drug conjugations that produce antibody-drug conjugations via a sulfhydryl group splice with SPP (n-succinimide 4- (2-pyridyl dithio)) or SMCC (4- (3-mercapto-2, 5-dioxy-1 pyrrolidyl) -cyclohexanic acid) splice.

Clinical and Translational Updates

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