



Source

Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 is a Mouse monoclonal antibody produced from a hybridoma created by fusing SP2/0 myeloma and Mouse B-lymphocytes.

Species

Mouse

Isotype

Mouse IgG1 | Mouse Kappa

Conjugate

Unconjugated

Antibody Type

Hybridoma Monoclonal

Reactivity

Chemical

Immunogen

DM-1.

Specificity

This product is a specific antibody specifically reacts with DM-1&DM-4.

Application

Application	Recommended Usage
ELISA	0.4-200 ng/mL

Cross Verification

This product No cross-reactivity in ELISA with Trastuzumab Deruxtecan. Sacituzumab Govitecam. Disitamab Vedotin (RC48).

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Purification

Protein A purified / Protein G purified

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.

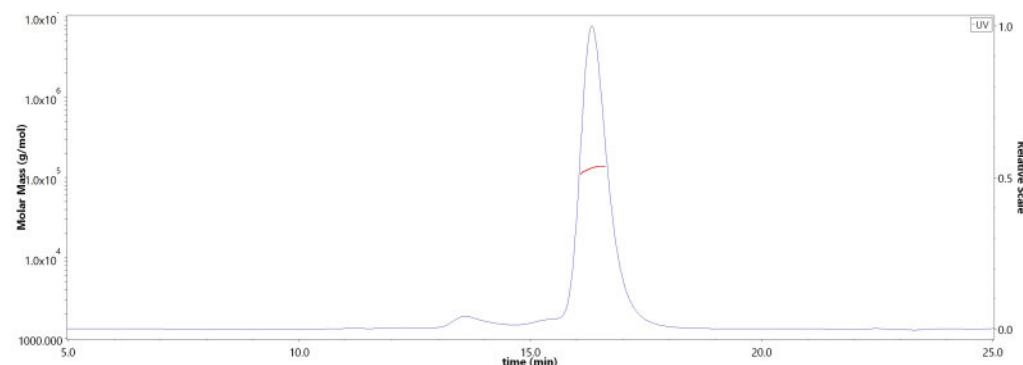
Please avoid repeated freeze-thaw cycles.

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.

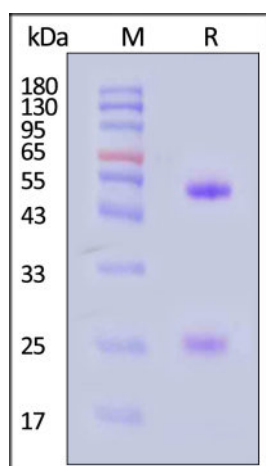
SDS-PAGE

SEC-MALS



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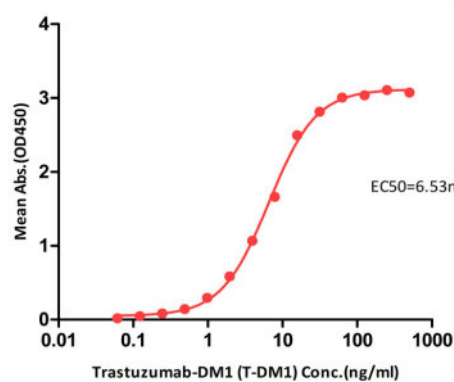
The purity of Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (Cat. No. DM1-Y73) is more than 90% and the molecular weight of this protein is around 130-160 kDa verified by SEC-MALS.

[Report](#)

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 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

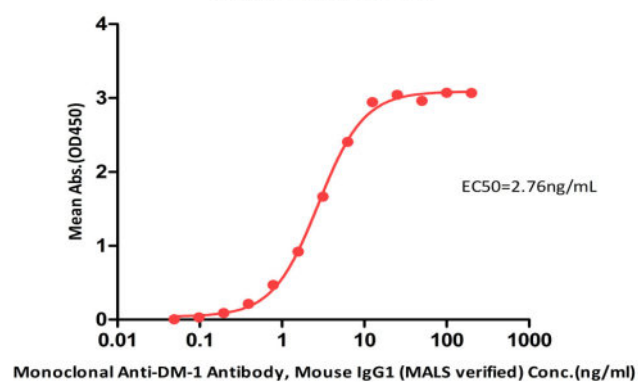
Bioactivity-ELISA

Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) ELISA
0.2 µg of Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) per well



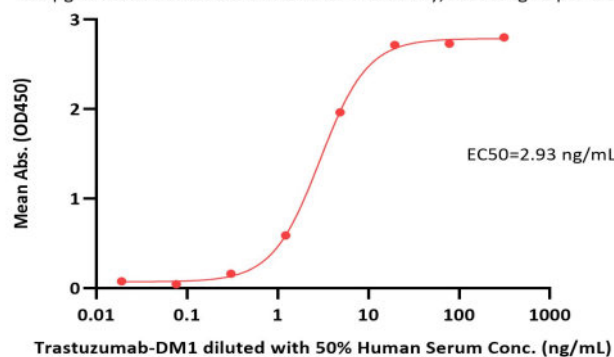
Immobilized Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (Cat. No. DM1-Y73) at 2 µg/mL, add increasing concentrations of Trastuzumab-DM1 (T-DM1), and then add Biotinylated Human Her2, His, Avitag, premium grade (Cat. No. HE2-H82E2) at 8 µg/mL. Detection was performed using HRP-conjugated streptavidin with sensitivity of 0.5 ng/mL (QC tested).

Monoclonal Anti-DM-1 Antibody, Mouse IgG1 (MALS verified) ELISA
0.2 µg of ADC-DM4 per well



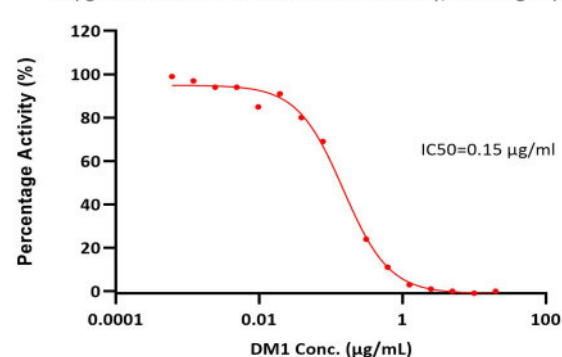
Immobilized ADC-DM4 at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (Cat. No. DM1-Y73) with a linear range of 0.20-6.25 ng/mL (Routinely tested).

Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1-Bridging ELISA
0.5 µg of Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 per well



Immobilized Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (Cat. No. DM1-Y73) at 5 µg/mL, add Trastuzumab-DM1 in the 50% Human serum and then add Biotinylated Human Her2, His, Avitag, premium grade (Cat. No. HE2-H82E2) at 0.5 µg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) (Routinely tested).

Inhibition of Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 ELISA
0.1 µg of Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 per well



Serial dilutions of DM1 were added into Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (Cat. No. DM1-Y73): Trastuzumab-DM1 binding reactions. The half maximal inhibitory concentration (IC50) is 0.148 µg/mL (Routinely tested).

Background

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

Catalog # DM1-Y73



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

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