

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

Catalog # DM1-Y73



## 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

## 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

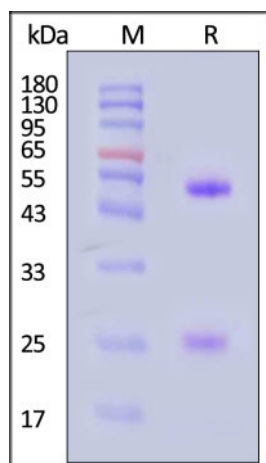
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

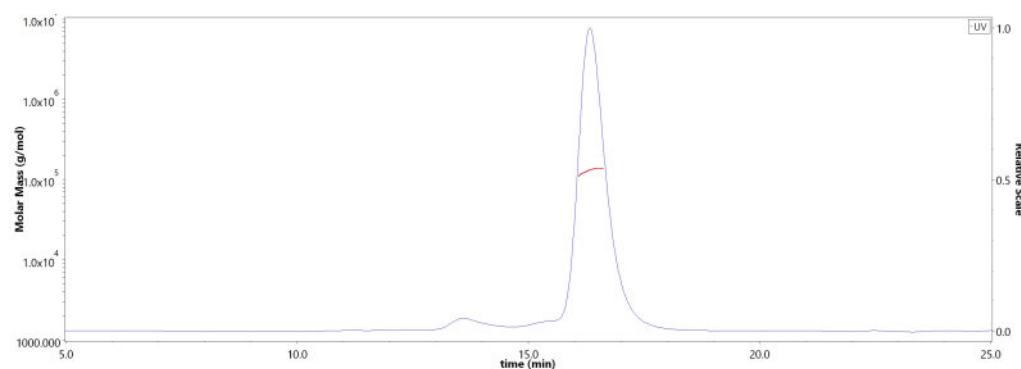
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



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

## SEC-MALS



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

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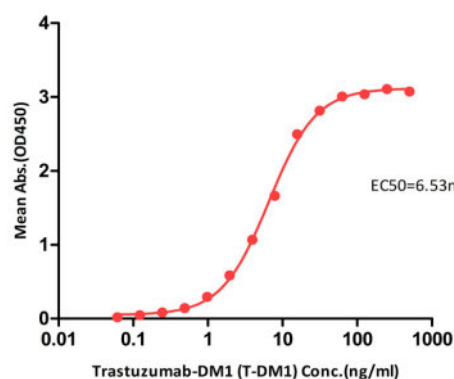


of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

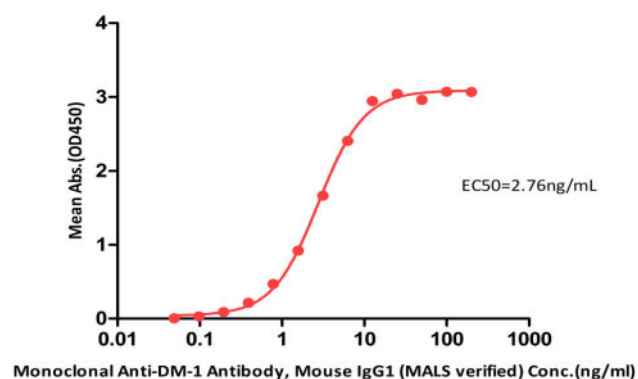
around 130-160 kDa verified by SEC-MALS. [Report](#)

**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



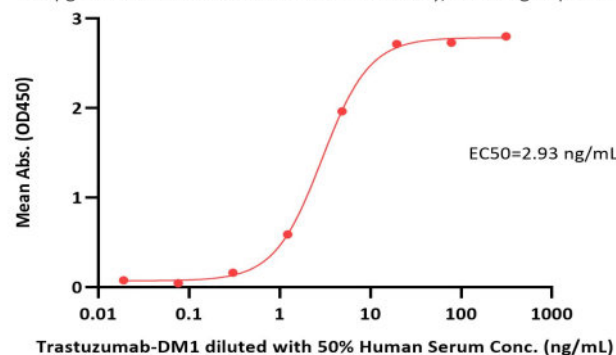
Monoclonal Anti-DM-1 Antibody, Mouse IgG1 (MALS verified) ELISA  
0.2µ g of ADC-DM4 per well



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).

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 0.20-6.25ng/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).

**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**

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