



## Specificity

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

## Source

Biotinylated 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.

## Isotype

Mouse IgG1 | Mouse Kappa

## Conjugate

Biotin

## Reactivity

Chemical

## Immunogen

DM-1

## Application

Application	Recommended Usage
ELISA	4-500 ng/mL

## 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.

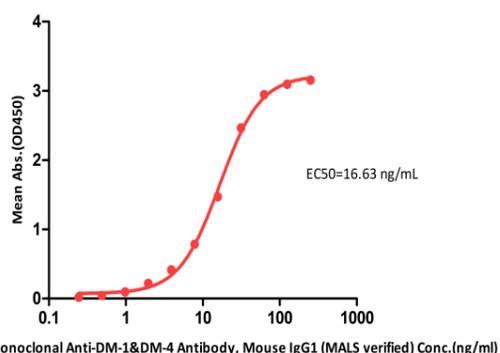
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

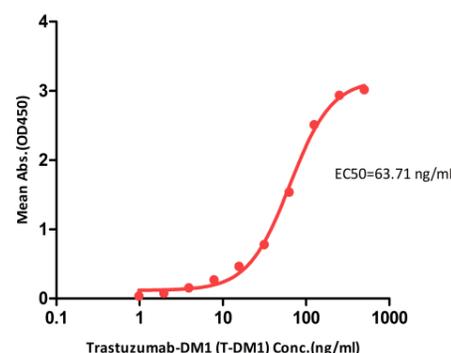
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## Bioactivity-ELISA

Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) ELISA  
0.2 µg of Trastuzumab-DM1 (T-DM1) per well



Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) ELISA  
0.2 µg of Human Her2 / ErbB2 (498-648) Protein, His Tag per well



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).

Discounts, Gifts,  
and more!



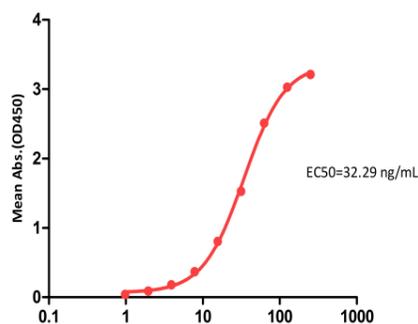
# Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1

Catalog # DM1-BLY73



BIOSYSTEMS  
**Acro**

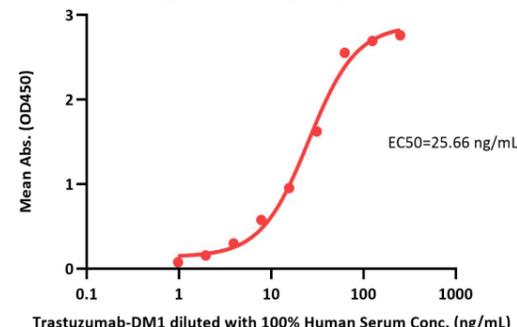
Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) ELISA  
0.2 µg of ADC-DM4 per well



Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (MALS verified) Conc. (ng/ml)

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).

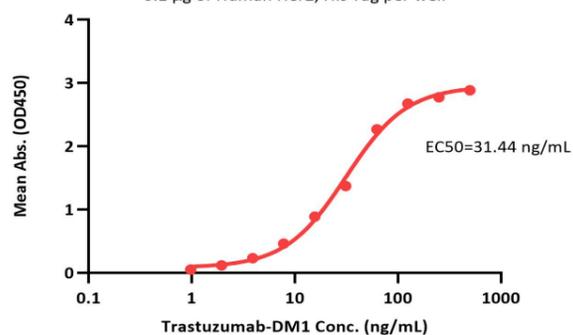
Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1-Bridging ELISA  
0.1 µg of Human Her2, His Tag per well



Trastuzumab-DM1 diluted with 100% Human Serum Conc. (ng/mL)

Immobilized Human Her2, His Tag (Cat. No. HE2-H5225) at 1 µg/mL, add Trastuzumab-DM1 in the 100% Human Serum and then add Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (Cat. No. DM1-BLY73) at 0.5 µg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) (QC tested).

Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 ELISA  
0.1 µg of Human Her2, His Tag per well



Trastuzumab-DM1 Conc. (ng/mL)

Immobilized Human Her2, His Tag (Cat. No. HE2-H5225) at 1 µg/mL, add Trastuzumab-DM1 in the 0.5% BSA and then add HRP conjugated Biotinylated Monoclonal Anti-DM-1&DM-4 Antibody, Mouse IgG1 (Cat. No. DM1-BLY73) 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.

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