Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05)

Catalog # MME-MY2198a

Specificity

Specifically recognizes MMAE and does not recognize MMAF.

Source

Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05) is a Rabbit monoclonal antibody recombinantly expressed from HEK293 cells.

Clone

M1H05

Isotype

Rabbit IgG | Rabbit Kappa

Conjugate

Unconjugated

Immunogen

MMAE-BSA

Application

Application	Recommended Usage
ELISA	0.03-31 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

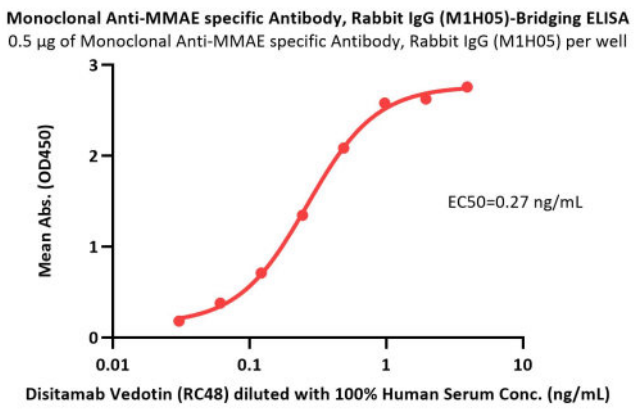
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

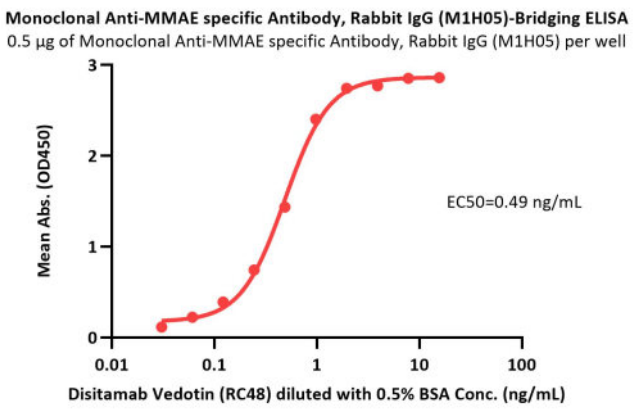
This product is stable after storage at:

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

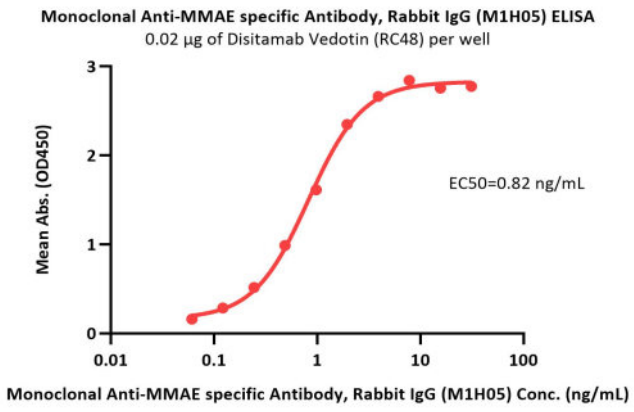
Bioactivity-ELISA



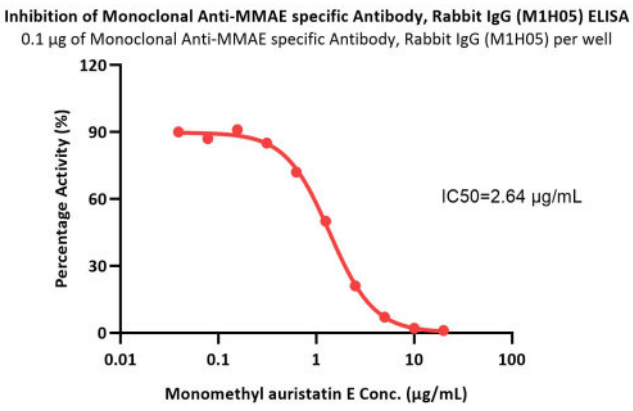
Immobilized Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05) (Cat. No. MME-MY2198a) at 5 μg/mL, add Disitamab Vedotin (RC48) in the 100% Human Serum and then add Biotinylated Human Her2, His,Avitag, premium grade (Cat. No. HE2-H82E2) at 0.5 μg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) (QC tested).



Immobilized Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05) (Cat. No. MME-MY2198a) at 5 μg/mL, add Disitamab Vedotin (RC48) in the 0.5% BSA 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).

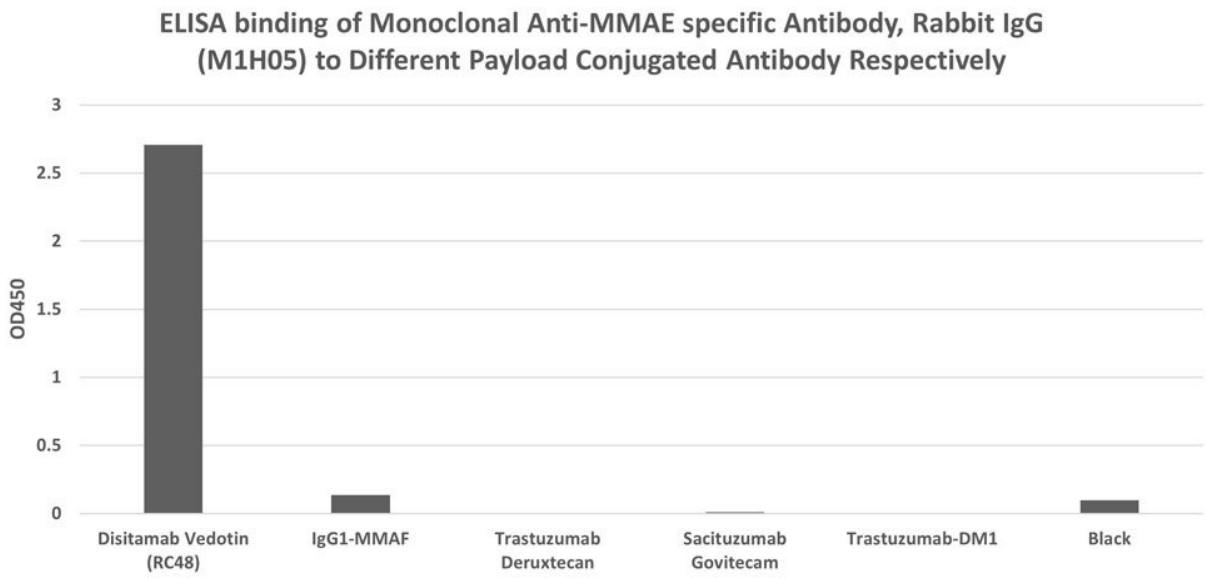


Immobilized Disitamab Vedotin (RC48) at 0.2 μg/mL (100 μL/well) can bind Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05) (Cat. No. MME-MY2198a) with a linear range of 0.06-2 ng/mL (Routinely tested).



Serial dilutions of Monomethyl auristatin E were added into Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05) (Cat. No. MME-MY2198a): Disitamab Vedotin (RC48) binding reactions. The half maximal inhibitory concentration (IC50) is 2.642 μg/mL (Routinely tested).

Cross Verification



ELISA binding of Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05) (Cat. No. MME-MY2198a) with Disitamab Vedotin (RC48), IgG1-MMAF, Trastuzumab Deruxtecan, Sacituzumab Govitecam and Trastuzumab-DM1 conjugated antibody respectively.

The coating antibody was Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05) (Cat. No. MME-MY2198a), used at 1 μg/mL concentration. The primary antibody were different payload conjugated antibodies, including Disitamab Vedotin (RC48), IgG1-MMAF, Trastuzumab Deruxtecan, Sacituzumab Govitecam and Trastuzumab-DM1 conjugated antibodies used at 0.25 μg/mL concentration. The secondary antibody was HRP conjugated Anti-Human-IgG-Fc Antibody (6F11C8), mAb (Acro, Cat. No. IGG-LY69) used at 1:10000 concentration.

Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H05) (Cat. No. MME-MY2198a) is specific to Disitamab Vedotin (RC48) and has no cross-reactivity with IgG1-MMAF, Trastuzumab Deruxtecan, Sacituzumab Govitecam and Trastuzumab-DM1 (Routinely tested).

Background

Monomethyl auristatin E (MMAE) is a synthetic derivative of dolastatin 10 and functions as a potent mitotic inhibitor by inhibiting tubulin polymerization. MMAE is widely used as a cytotoxic component of antibody-drug conjugates (ADCs) to treat several cancer types. Anti-MMAE antibody is a rabbit monoclonal antibody. The anti-MMAE antibody is a useful reagent in PK assay to determine conjugated antibodies.