Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H09)

Catalog # MME-MY2209

Source

Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H09) is a rabbit monoclonal antibody recombinantly expressed in HEK293 cells.

Antibody Type

Recombinant Monoclonal

Clone

M1H09

Isotype

Rabbit IgG, Kappa

Immunogen

MMAE-BSA

Specificity

Specifically recognizes MMAE and does not recognize MMAF.

Purification

Protein A purified / Protein G purified.

Concentration

Please refer to the Certificate of Analysis (CoA).

Form

Lyophilized

Formulation

Lyophilized from a 0.22 μm-filtered solution in PBS (pH 7.4), with trehalose as protectant.

Please contact us for customized product forms or formulations.

Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

Shipping

Lyophilized product is shipped at ambient temperature.

Storage

For long term storage, the product should be stored in a 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.

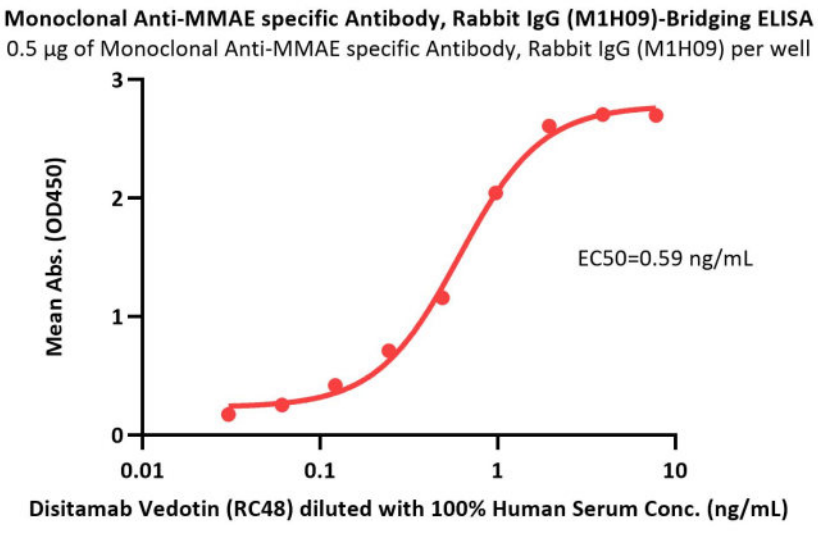
Notices

Product Specific Notices: For research use only.

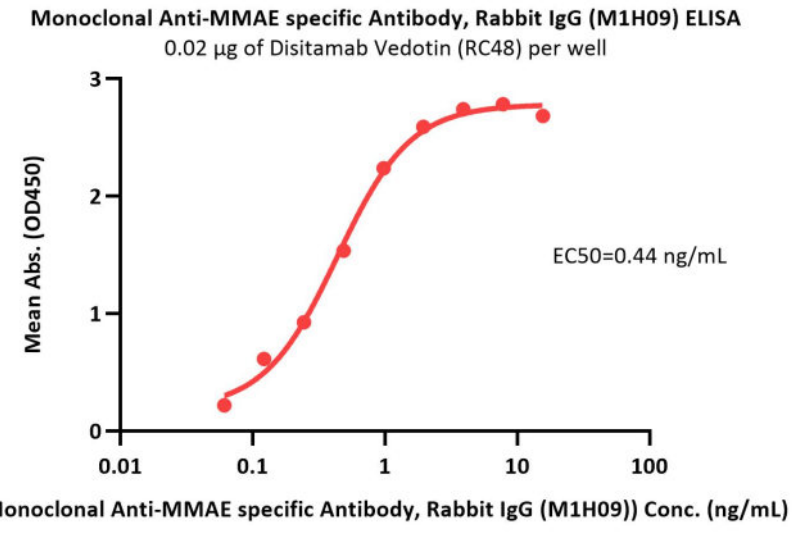
ACRO Quality Management System

- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

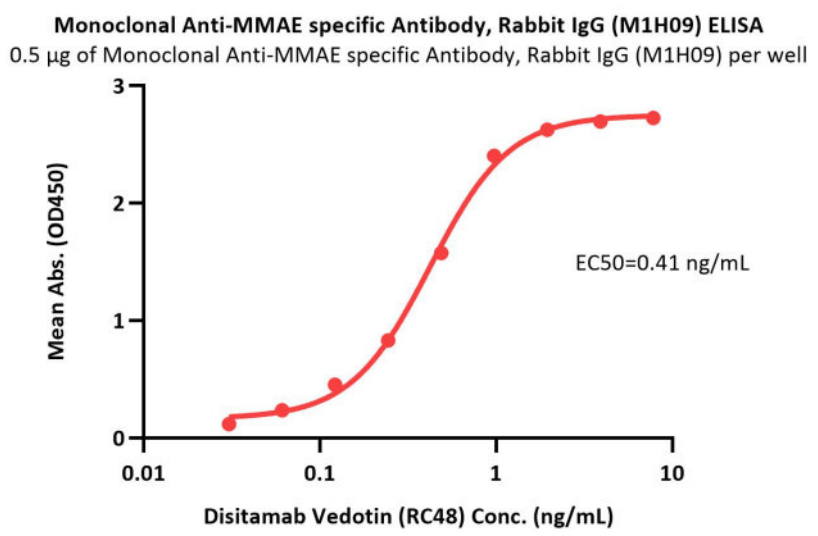
Bioactivity-ELISA



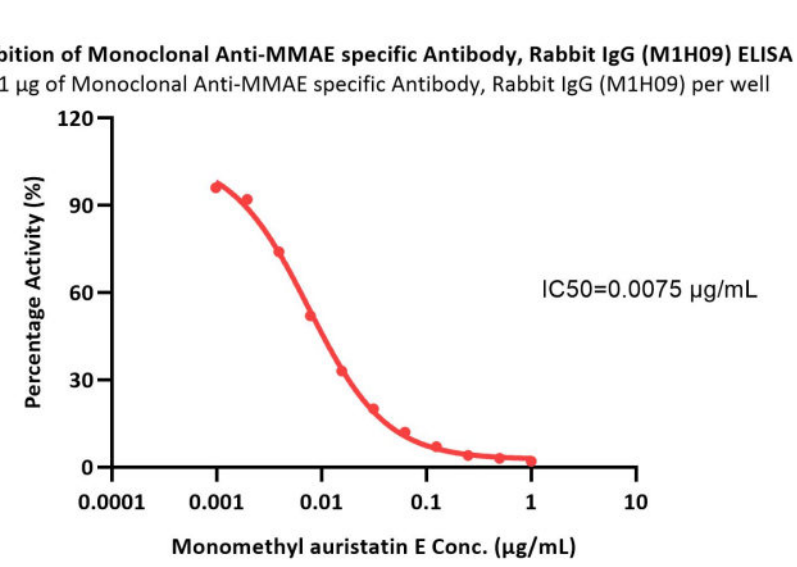
Immobilized Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H09) (Cat. No. MME-MY2209) at 5 μg/mL, add Disitamab Vedotin (RC48) in the 100% Human Serum and then add Biotinylated Human Her2, His,Avitag, premium grade (Cat. No. HE2-H82E2) at 0.5 μg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) (QC tested).



Immobilized Disitamab Vedotin (RC48) at 0.2 μg/mL (100 μL/well) can bind Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H09) (Cat. No. MME-MY2209) with a linear range of 0.06-1 ng/mL (Routinely tested).

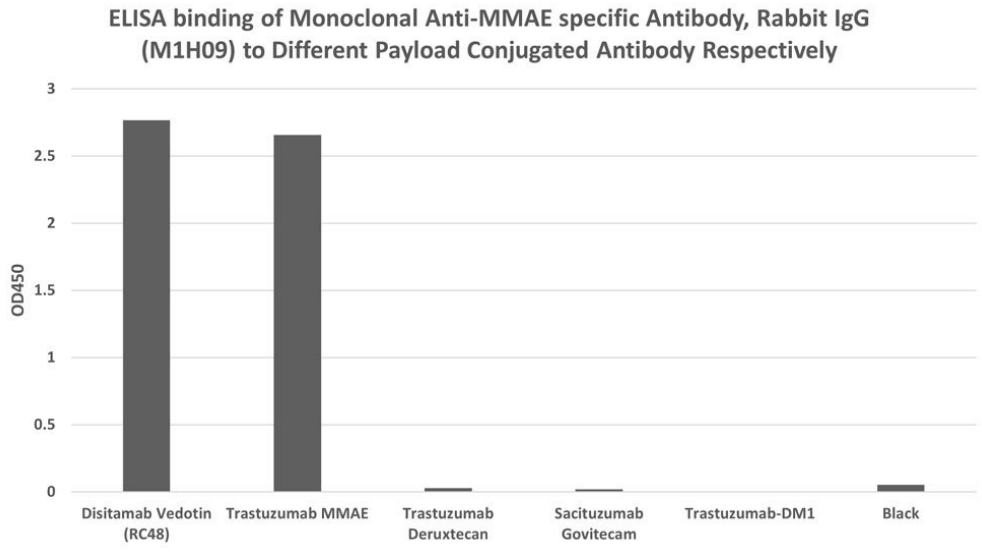


Immobilized Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H09) (Cat. No. MME-MY2209) at 5 μg/mL, add Disitamab Vedotin (RC48) in the 0.5% BSA and then add Biotinylated Human Her2, His,Avitag, premium grade (Cat. No. HE2-H82E2) at 0.5 μg/mL. Detection was performed using HRP-conjugated Streptavidin (Acro, Cat. No. STN-NH913) (Routinely tested).



Serial dilutions of Monomethyl auristatin E were added into Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H09) (Cat. No. MME-MY2209): Disitamab Vedotin (RC48) binding reactions. The half maximal inhibitory concentration (IC50) is 0.007529 μg/mL (Routinely tested).

Cross Verification



ELISA binding of Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H09) (Cat. No. MME-MY2209) with Disitamab Vedotin (RC48), Trastuzumab Deruxtecan, Sacituzumab Govitecam, Trastuzumab MMAE and Trastuzumab-DM1 conjugated antibody respectively.
The coating antibody was Monoclonal Anti-MMAE specific Antibody, Rabbit IgG (M1H09) (Cat. No. MME-MY2209), used at 1 μg/mL concentration. The primary antibody were different payload conjugated antibodies, including Disitamab Vedotin (RC48), Trastuzumab Deruxtecan, Sacituzumab Govitecam, Trastuzumab MMAE and Trastuzumab-DM1 conjugated antibodies used at 0.5 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 (M1H09) (Cat. No. MME-MY2209) is specific to Disitamab Vedotin (RC48) and Trastuzumab MMAE, and has no cross-reactivity with 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 specially react with MMAE without MMAF, which is more sensitive than mouse antibody. The anti-MMAE antibody is a useful reagent in PK assay to determine conjugated antibodies.