

Anti-MMAE Mouse IgG1 Antibody (11C10E3)

Product Information

Product Name	Anti-MMAE Mouse IgG1 Antibody
Storage temp.	Store at +4°C short term (1-2 weeks). Store at -80°C long term, avoiding freeze/thaw cycles.
Catalog# / Size	GM-60247AB-100 / 100 µg GM-60247AB-1000 / 1 mg

Antibody Information

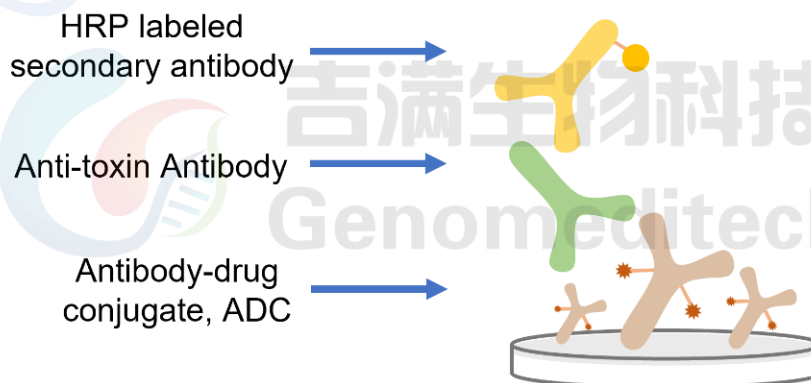
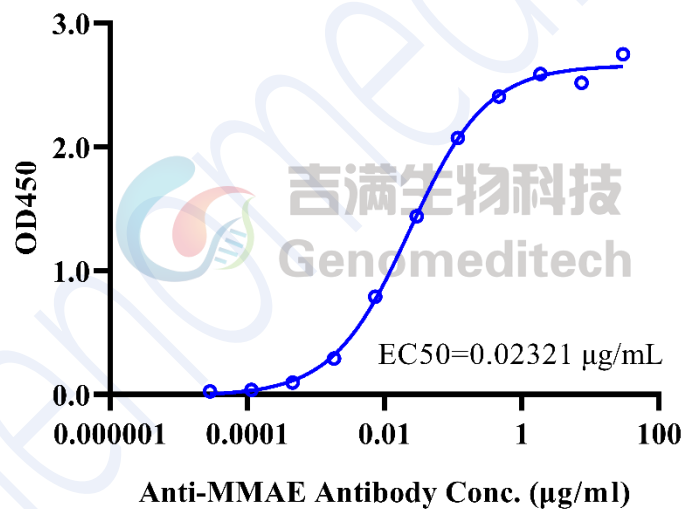
Target	Monomethyl auristatin E
Antibody Type	Monoclonal
Isotype	Mouse IgG1
Clone	11C10E3
Expression System	CHO
Aggregation	/
Purity	> 95% as determined by SDS-PAGE
Endotoxin	/
Sterility	0.2 µm Filtered
Antigen	/
Conjugate	Unconjugated
Application	ELISA, PK
Alternative Names	/
Description	Monomethyl auristatin E (MMAE) is a synthetic antineoplastic agent. Because of its toxicity, it cannot be used as a drug itself; instead, it is linked to a monoclonal antibody (MAB) which directs it to the cancer cells. In International Nonproprietary Names for MMAE-MAB-conjugates, the name vedotin refers to MMAE plus its linking structure to the antibody. It is a potent antimitotic drug derived from peptides occurring in marine shell-less mollusc Dolabella auricularia called dolastatins which show potent activity in preclinical studies, both in vitro and in vivo, against a range of lymphomas, leukemia and solid tumors. Monomethyl auristatin E is an antimitotic agent which inhibits cell division by blocking the polymerisation of tubulin. The linker to the monoclonal antibody is stable in extracellular fluid but is cleaved by cathepsin once the conjugate has entered a tumor cell, thus activating the antimitotic mechanism.
Formulation	Dulbecco's phosphate-buffered solution, pH 7.4.

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Data Examples

- Indirect ELISA**
- Coating 100 μL /well Monoclonal Human IgG1 Isotype-MMAE (Dar4) (Catalog # GM-77422AB), ADC (1 $\mu\text{g}/\text{mL}$; PBS dilution) on microplate, store at 4°C overnight.
 - Gently remove the liquid, wash the plate several times (2-3) with PBST (pH=7.4). Add 5% Skim Milk (in PBS) to block at room temperature for 1 h.
 - Gently remove the liquid, wash the plate several times (2-3) with PBST (pH=7.4). Add 10 $\mu\text{g}/\text{mL}$ Anti-MMAE Mouse IgG1 Antibody (Catalog # GM-60247AB) in gradient dilution with 5% Skim Milk, and incubate at room temperature for 2 h.
 - Gently remove the liquid, wash the plate several times (2-3) with PBST (pH=7.4). Add HRP-conjugated anti-Mouse igG-Fc mAb (1:10000) and incubate at room temperature for 2 h.
 - Gently remove the liquid, wash the plate several times (2-3) with PBST (pH=7.4), add chromogenic solution. After 10 minutes, Appropriate amount of stop solution was added to terminate the reaction.
 - Microplate reader to detect the OD450 and analysis the data.
 - The EC50 value of Anti-MMAE Mouse IgG1 Antibody to Monoclonal Human IgG1 Isotype-MMAE (Dar4) was 0.02321 $\mu\text{g}/\text{mL}$.

Monoclonal Anti-MMAE Antibody, ELISA
0.1 μg of Human IgG1 Isotype-MMAE (Dar4) per well



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