

# Anti-MMAE Mouse IgG2a Antibody (17A1K11)

## Product Information

|                        |  |
|------------------------|--|
| <b>Product Name</b>    | Anti-MMAE Mouse IgG2a Antibody   |
| <b>Storage temp.</b>   | Store at 2-8°C short term (1-2 weeks).Store at $\leq -20^{\circ}\text{C}$ long term. Avoid repeated freeze-thaw. |
| <b>Catalog# / Size</b> | <b>GM-81234AB-100 / 100 <math>\mu\text{g}</math></b><br><b>GM-81234AB-1000 / 1 mg</b>                            |

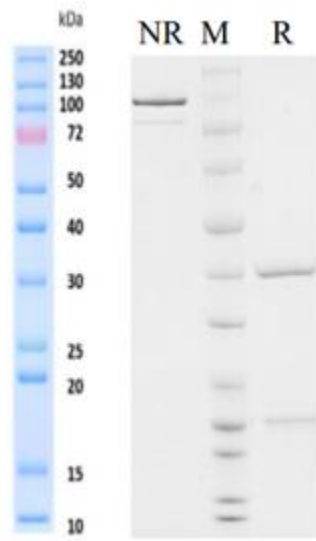
## Antibody Information

|                          |  |
|--------------------------|--|
| <b>Expression System</b> | CHO  |
| <b>Aggregation</b>       | < 5% as determined by SEC-HPLC   |
| <b>Purity</b>            | > 95% as determined by SDS-PAGE  |
| <b>Endotoxin</b>         | <1 EU/mg by LAL  |
| <b>Sterility</b>         | 0.2 $\mu\text{m}$ Filtered   |
| <b>Target</b>            | MMAE   |
| <b>Clone</b>             | 17A1K11  |
| <b>Alternative Names</b> | /  |
| <b>Source/Isotype</b>    | Monoclonal Mouse IgG2a, $\kappa$   |
| <b>Application</b>       | ELISA, PK  |
| <b>Description</b>       | 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. |
| <b>Formulation</b>       | Dulbecco's phosphate-buffered solution, pH 7.4.  |

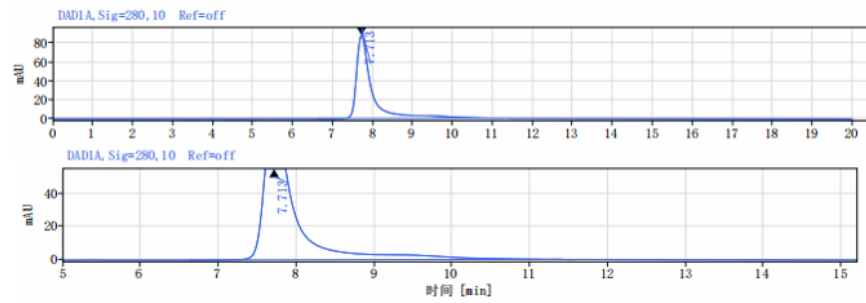
Version:3.1.1 Revision Date:11/06/2023

## Data Examples

### SDS-PAGE



### SEC-HPLC



The purity of this product is more than 95% verified by SEC-HPLC

- Indirect ELISA**
- Coating 100  $\mu\text{L}$ /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 IgG2a Antibody (Catalog # GM-81234AB) 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 IgG2a Antibody to Monoclonal Human IgG1 Isotype-MMAE (Dar4) was 0.02042  $\mu\text{g}/\text{mL}$ .

**Monoclonal Anti-MMAE Antibody, ELISA**  
0.1  $\mu\text{g}$  of Human IgG1 Isotype-MMAE (Dar4) per well

