PRODUCT INFORMATION

MMAE Monoclonal Antibody (Clone 1G1)

Item No. 44706

Overview and Properties

Contents: This vial contains 100 µg of protein G-purified monoclonal antibody.
Synonyms: Monomethyl Auristatin E, Vedotin
Immunogen: Vc-MMAE-KLH
Cross Reactivity: (+++) MMAE, (+) Mertansine
Species Reactivity: (+) Species independent
Form: Liquid
Storage: -20°C (as supplied)
Stability: ≥3 years
Storage Buffer: PBS (pH 7.2), with 50% glycerol and 0.02% sodium azide
Clone: 1G1
Host: Mouse
Isotype: IgG_{3k}
Applications: ELISA and Western blot (WB); the recommended starting dilutions are 1:1,000 (2 µg/ml) for both WB and ELISA. Other applications were not tested; therefore, optimal working concentration/dilution should be determined empirically.

Image

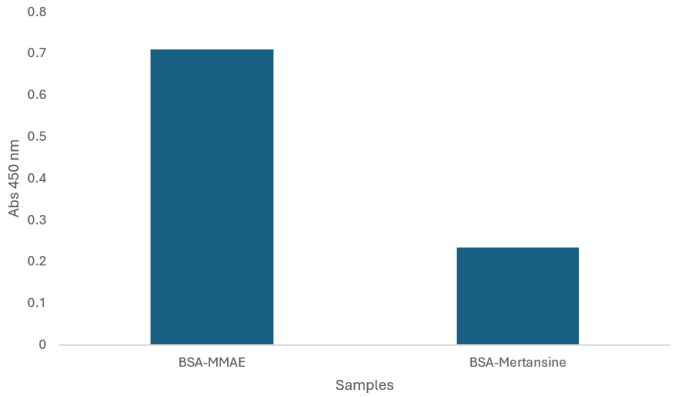

Figure 1. MMAE Monoclonal Antibody (Clone 1G1) (Item No. 44706) detected an MMAE-albumin conjugate with 32% cross-reactivity to a mertansine-albumin conjugate by ELISA.

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Description

Monomethyl auristatin E (MMAE) is an inhibitor of tubulin polymerization and a derivative of dolastatin 10.[1] It inhibits the assembly of MAP-rich tubulin and induces cell cycle arrest and cell death in cancer cells *in vitro*.[2] MMAE has been used as the cytotoxic payload component of antibody-drug conjugates (ADCs) with anticancer activity *in vitro* and in animal models.[1,2] Cayman's MMAE Monoclonal Antibody (Clone 1G1) can be used for ELISA and Western blot (WB) applications.

References

1. Best, R.L., LaPointe, N.E., Azarenko, O., *et al*. Microtubule and tubulin binding and regulation of microtubule dynamics by the antibody drug conjugate (ADC) payload, monomethyl auristatin E (MMAE): Mechanistic insights into MMAE ADC peripheral neuropathy. *Toxicol. Appl. Pharmacol.* **421**, 115534 (2021).
2. Francisco, J.A., Cerveny, C.G., Meyer, D.L., *et al*. cAC10-vcMMAE, an anti-CD30-monomethyl auristatin E conjugate with potent and selective antitumor activity. *Blood* **102(4)**, 1458-1465 (2003).

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