

DiTag MMAE IgG Reagent | IgG reagent

DiTag MMAE IgG labeling reagent

CATALOG #
AAA129417

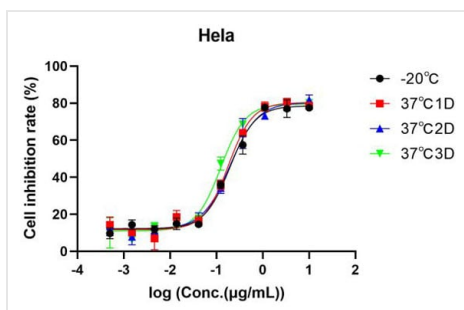
PRODUCT SYNONYMS

DiTag MMAE IgG; DiTag MMAE IgG labeling reagent; IgG reagent

PRODUCT SPECIFICATIONS

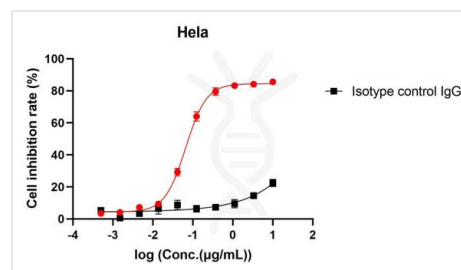
Isotype	The DiTag MMAE IgG labeling reagents can be used for human IgG1, IgG2 and IgG4, rabbit IgG, mouse IgG2a and IgG2b.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Detection Method	Cell viability detection with MTT, CCK8, or CTG
Preparation and Storage	The reagents are supplied in lyophilized form. We recommend storing the vial (s) at -20°, desiccated and protected from light. Once reconstituted, the reagents can be stored at 2-8° for 1~2 weeks, or with 50% glycerol at -20°.

IMAGES



Application Data

Figure 2. Accelerated stability test of AAA129417. Following lyophilization, samples were stored at -20°C (black), 37°C for 1 day (red), 37°C for 2 days (blue), and 37°C for 3 days (green), separately. Upon reconstitution, the cell inhibition rate of each sample was determined using the CCK8 method. The data indicate excellent stability for all samples.



Application Data

Figure 1. Cell inhibition rate of HeLa detected by CCK8 method. The IC₅₀ of B7H3 ADC BMK is 66ng/ml, indicating specific internalization.

ADDITIONAL INFORMATION

Related Product Information for IgG reagent

DiTag MMAE IgG labeling reagents provide an easy solution for quantifying antibody internalization activities. Leveraging VcMMAE (MC-VC-PABC-MMAE) conjugated to an Fc binding protein, these reagents bind to IgG antibodies from various species, resulting in the formation of a VcMMAE-labeled antibody-reagent complex. Upon antibody internalization, the cleavable linker MC-VC-PABC is enzymatically cleaved by cathepsin B, a protein overexpressed in multiple cancer types. This enzymatic cleavage triggers the release of PABC-substituted MMAE, forming an unstable intermediate that liberates the free drug. Measurement of cell killing or inhibition allows researchers to evaluate the efficiency of antibody internalization into cells. This critical information enhances our understanding of the cellular uptake mechanism of antibodies and aids in assessing their efficacy in targeted therapies or test applications.

Product Categories/Family for IgG reagent

ADC Assay Reagents

NCBI AND UNIPROT INFORMATION

Molecular Weight	The product has a MW of 34kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/reagent/ditag-mmae-igg/129417>