

PRODUCT INFORMATION

Applications Antibody internalization labeling reagent

Detection method Flow cytometry, detected with FITC or AF488 filter

Excitation-Emission 505/525 nm

Molecular Weight The product has a MW of 21.8 kDa

Lyophilized from sterile PBS, pH 7.4. Normally 5 % 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution.

The DiTagTM pH sensitive IgG labeling reagents can be used for human IgG1, IgG2, IgG3, IgG4, rabbit IgG, mouse IgG1, IgG2a, IgG2b and IgG3. IgG type

We recommend test antibody to mix with

Recommended **Dilutions** AME100002 at 1:2 in molar ratio

DiTagTM pH sensitive IgG labeling reagent plus Description

Delivery in Stock

Background

The reagents are supplied in lyophilized form. We

recommend storing the vial(s) at -20°C,

desiccated and protected from light. Once reconstituted, the reagents can be stored at 2-8°C Storage & Shipping

for 1~2 weeks, or with 50% glycerol at -20°C.

DiTagTM pH sensitive IgG labeling reagents provide an easy solution to measure internalization activities of antibodies. This reagent utilizes a pH-sensitive fluorescently labeled Fc binding protein that binds to IgG antibodies from various species, resulting in the formation of a fluorescently labeled antibody-

reagent complex. After antibody internalization, the surrounding pH becomes acidic and significantly enhances fluorescence signal of antibody-reagent complex. The fluorescence intensity can be used as an indicator to determine

the internalization activity of antibodies. By measuring the strength of the fluorescence signal, researchers can assess the efficiency of

antibody internalization into cells. This

information is crucial in understanding the cellular uptake mechanism of antibodies and assessing their efficacy in targeted therapies or diagnostic applications. Additionally, monitoring the fluorescence intensity can also provide insights into the kinetics of antibody internalization, helping researchers optimize experimental

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condition and improve the design of antibodybased drug delivery systems.

Usage Research use only





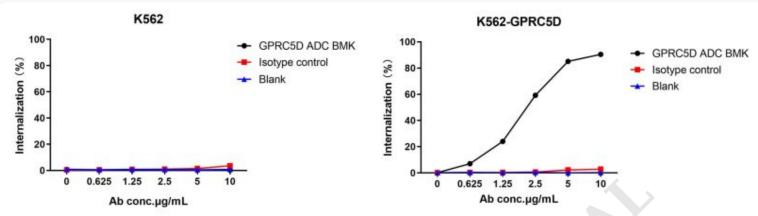


Figure 1. The fluorescent signal from GPRC5D ADC BMK-AME100002 conjugate is only detected in GPRC5D positive cells (K562-GPRC5D stable expression cell line), indicating specific internalization.

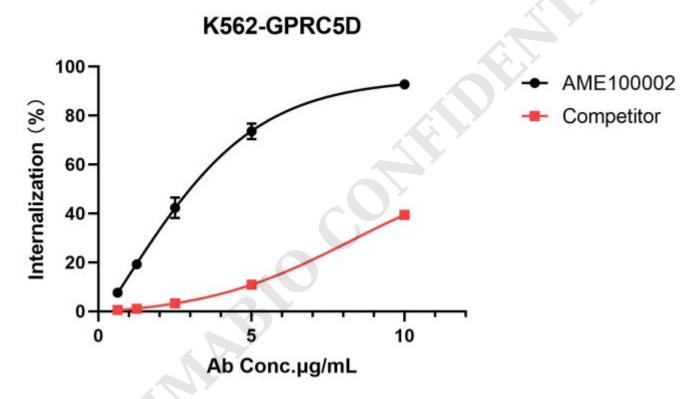


Figure 2. Comparison of internalization effects between AME100002 and competitor reagent (pH sensitive Z product from T company) on GPRC5D positive cells (K562-GPRC5D stable expression cell line).

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