

Product datasheet

Anti-CD3 epsilon antibody [145-2C11] (Biotin-maleimide) ab25172

2 References 1 Image

Overview

<b>Product name</b>	Anti-CD3 epsilon antibody [145-2C11] (Biotin-maleimide)
<b>Description</b>	Armenian Hamster monoclonal [145-2C11] to CD3 epsilon (Biotin-maleimide)
<b>Host species</b>	Armenian hamster
<b>Conjugation</b>	Biotin-maleimide
<b>Specificity</b>	ab25172 recognises Mouse CD3 epsilon (Mr 25 kDa).
<b>Tested applications</b>	<b>Suitable for:</b> Functional Studies, Flow Cyt, IP, WB, Cellular Activation
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	H-2K <sup>b</sup> -specific mouse cytotoxic T lymphocyte clone BM10-37.
<b>Epitope</b>	ab25172 recognizes an epitope on the 25kD epsilon chain of the CD3/TCR complex.
<b>General notes</b>	In the presence of Fc receptor-bearing accessory cells, soluble ab25172 can activate primed and naïve T cell in vitro and can also induce redirected lysis of specific target cells by CTL clones and it can block lysis of specific target cells by antigen-specific CTL's. Immobilized ab25172 can activate both normal T lymphocytes and cloned T cell lines. Under certain conditions, T cell activation by 145-2C11 may result in apoptotic cell death.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.1% Sodium Azide Constituents: PBS
<b>Purity</b>	IgG fraction
<b>Primary antibody notes</b>	In the presence of Fc receptor-bearing accessory cells, soluble ab25172 can activate primed and naïve T cell in vitro and can also induce redirected lysis of specific target cells by CTL clones and it can block lysis of specific target cells by antigen-specific CTL's. Immobilized ab25172 can activate both normal T lymphocytes and cloned T cell lines. Under certain conditions, T cell activation by 145-2C11 may result in apoptotic cell death.

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	145-2C11
<b>Isotype</b>	IgG
<b>Light chain type</b>	kappa

## Applications

Our [Abpromise guarantee](#) covers the use of **ab25172** in the following tested applications.

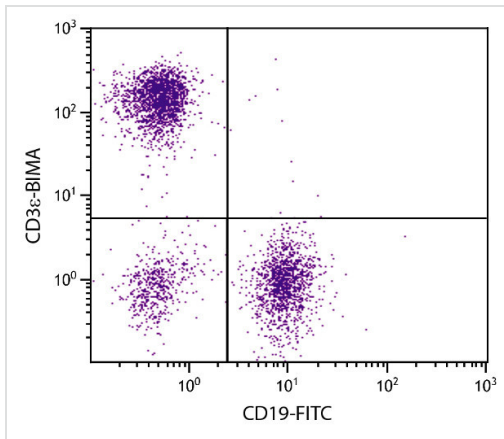
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration. In vitro depletion of CD3+ cells.
Flow Cyt		Use 3µg for 10 <sup>6</sup> cells.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 23 kDa.
Cellular Activation		Use at an assay dependent concentration. In vitro activation of T cells.

## Target

<b>Function</b>	The CD3 complex mediates signal transduction.
<b>Sequence similarities</b>	Contains 1 Ig-like (immunoglobulin-like) domain. Contains 1 ITAM domain.
<b>Cellular localization</b>	Membrane.

## Images



Flow Cytometry analysis of BALB/c mouse splenocytes stained with Anti-CD3 epsilon antibody [145-2C11] (Biotin-maleimide) ab25172 (0.3  $\mu\text{g}/10^6\text{cells}$ ), and Rat Anti-Mouse CD19-FITC followed by Streptavidin-PE.

Flow Cytometry - Anti-CD3 epsilon antibody [145-2C11] (Biotin-maleimide) (ab25172)

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