



20150116ML

# Anti-Human CD3 epsilon (#3F43)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M303</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of CD3ε.

## Target Background

<b>Synonyms (Target):</b>	CD3E; T3E; TCRE
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The T cell receptor (TCR)/CD3 complex consists of two variable antigen-recognition receptor chains (TCR-alpha/TCR-beta or TCR-gamma/TCR-delta) that are non-covalently linked to at least four different invariant chains: CD3 gamma, CD3 delta, CD3 epsilon, and the CD3 zeta chain that exists as either a homodimer or as a heterodimer with its splice-variant the CD3 eta chain. The CD3 complex functions to transduce intracellular signals during TCR antigen recognition. CD3 is expressed early in thymocyte development, and on a subset of NK cells. CD3 epsilon is one of at least three invariant proteins that associate with the variable antigen recognition chains of the T cell receptor and function in signal transduction.

## Database References Target

<b>Protein RefSeq:</b>	NP_000724
<b>Uniprot ID:</b>	P07766
<b>mRNA RefSeq:</b>	NM_000733.3

## Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#3F43)
<b>Isotype</b>	IgG1
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	recombinant human CD3 epsilon
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to detect human CD3 epsilon.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:  
IHC, FC, Activation of T cells

### Recommended usage:

IHC (frozen) 1:50 - 1:100

FC 1:50 - 1:100

Activation of T cells.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**



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## Application/Handling

