

# PE Rat anti-Mouse CD3 mAb

**Catalog No.: A28384**

## Basic Information

### Observed MW

### Calculated MW

19 kDa/21 kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Mouse

### CloneNo number

ATC0031

### Conjugate

PE. Ex:565nm. Em:574nm.

## Recommended Dilutions

**FC** ≤0.25 µg per million cells  
in 100 µl volume

## Background

Predicted to enable identical protein binding activity and transmembrane signaling receptor activity. Involved in positive thymic T cell selection. Part of alpha-beta T cell receptor complex. Is expressed in thymus primordium. Human ortholog(s) of this gene implicated in immunodeficiency 19 and severe combined immunodeficiency. Orthologous to human CD3D (CD3d molecule). Predicted to enable several functions, including SH3 domain binding activity; identical protein binding activity; and protein heterodimerization activity. Involved in nervous system development and positive regulation of cell adhesion. Acts upstream of or within several processes, including positive regulation of T cell activation; positive regulation of cytokine production; and regulation of signal transduction. Located in several cellular components, including dendritic spine; external side of plasma membrane; and immunological synapse. Part of alpha-beta T cell receptor complex. Is expressed in colon and hemolymphoid system. Human ortholog(s) of this gene implicated in immunodeficiency 18. Orthologous to human CD3E (CD3e molecule).

## Immunogen Information

### Gene ID

12500/12501

### Swiss Prot

P04235/P22646

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

T3d; CD3; T3e; CD3epsilon

## Contact

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## Product Information

### Source

Rat

### Isotype

Rat / IgG2b, kappa

### Purification

Affinity purification

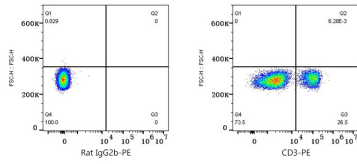
### Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data

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Flow cytometry:  $1 \times 10^6$  C57BL/6 mouse splenocytes were surface-stained with PE Rat IgG2b IgG isotype control (0.25  $\mu$ g, left) or PE Rat anti-Mouse CD3 mAb (A28384, 0.25  $\mu$ g, right).