

# APC Rat anti-Mouse CD3 mAb

**Catalog No.: A28773**

## Basic Information

**Observed MW**

**Calculated MW**

**Category**

Primary antibody

**Applications**

FC

**Cross-Reactivity**

Mouse

**CloneNo number**

ATC0031

**Conjugate**

APC. Ex:650nm. Em:660nm.

## 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).

## Recommended Dilutions

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

## 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

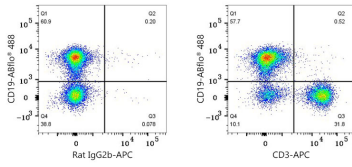
**Storage**

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 ABflo® 488 Rabbit anti-Mouse CD19 mAb (A24100, 5  $\mu$ l/Test) and APC Rat IgG2b isotype control (5  $\mu$ l/Test, left) or APC Rat anti-Mouse CD3 mAb (A28773, 0.25  $\mu$ g, right)