

PE/Cyanine7 Rat anti-Mouse CD3 mAb

Catalog No.: A28018

Basic Information

Observed MW**Calculated MW**

19kDa/21kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Mouse

CloneNo number

ATC10001

Conjugate

PE-Cy7. Ex:565nm. Em:778nm.

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

IgG2b, κ

Purification

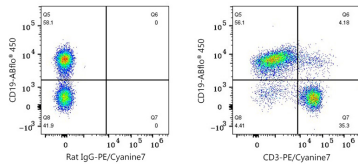
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

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

Validation Data



Flow cytometry: 1X10⁶ C57BL/6 mouse splenocytes were surface-stained with ABflo® 450 Rabbit anti-Mouse CD19 (A26192, 5 µl/Test) and PE-Cy7 Rat IgG isotype control (5 µl/Test, left) or PE/Cyanine7 Rat anti-Mouse CD3 mAb (A28018, 0.25 µg, right) .