

Armenian Hamster anti-Mouse CD3 mAb

Catalog No.: A27913

Basic Information

Observed MW

Calculated MW

21kDa

Category

Primary antibody

Applications

FC, in vitro T cell stimulation/activation

Cross-Reactivity

Mouse

CloneNo number

BE0001-1

Background

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 Recommended starting concentration is 2 µg/mL. Please optimize the concentration based on your specific assay requirements

Immunogen Information

Gene ID

12501

Swiss Prot

P22646

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

CD3; T3e; CD3epsilon

Contact

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Product Information

Source

Armenian Hamster

Isotype

Armenian Hamster IgG1

Purification

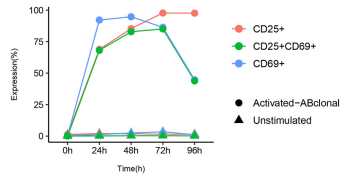
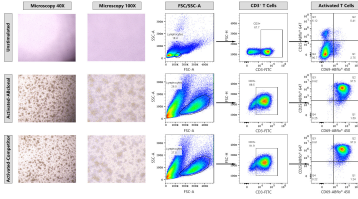
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin Level: Less than 0.001 EU/µg of the protein as determined by the LAL test.

Validation Data



C57BL/6 mouse splenocytes were activated using Armenian Hamster anti-Mouse CD3 mAb (A27913,2ug/ml) and Syrian Hamster anti-Mouse CD28 mAb (A27914,2ug/ml), or competitor's CD3/CD28 antibody for 72 hours. The unstimulated control was performed without treatment. Cells were fluorescently stained with FITC Anti-Mouse CD3e mAb (A23322,5 μ L/Test), ABflo® 647 Rabbit anti-Mouse CD25 mAb (A23808,5 μ L/Test), ABflo® 450 Rabbit anti-Mouse CD69 mAb (A26449,5 μ L/Test). The degree of T cell activation are defined as CD25+CD69+ cells on CD3+ T cells gate.

The expression of CD25 and CD69 in mouse CD3+ T Cells changes with activation time using Mouse T Cell Activation Kit (Anti-CD3/CD28) (RK40101,2ug/ml).