

Mouse anti-Human CD3 mAb

Catalog No.: A25761 **1 Publications**

Basic Information

Observed MW

Refer to figures

Calculated MW

23kDa

Category

Primary antibody

Applications

FC, in vitro T cell stimulation/activation

Cross-Reactivity

Human

CloneNo number

AMC50002

Background

The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.

Recommended Dilutions

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

Immunogen Information

Gene ID

916

Swiss Prot

P07766

Immunogen

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

Synonyms

T3E; TCRE; IMD18; CD3epsilon; CD3E Antigen

Contact

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Product Information

Source

Mouse

Isotype

mouse IgG2a

Purification

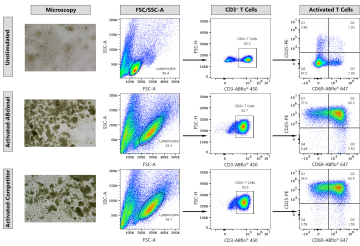
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: 0.2 µm filtered in acetate-buffered solution, pH 5.5, containing no preservative.
Endotoxin Level: Less than 0.01 EU/µg of the protein (< 0.001 ng/µg of the protein) as determined by the LAL test.

Validation Data



Flow cytometry: Human T cells in PBMC were activated using Mouse anti-Human CD3 mAb (A25761,2ug/ml) and Rabbit anti-Human CD28 mAb (A27700,2ug/ml), or competitor's CD3/CD28 antibody for 72 hours. The unstimulated control was performed without treatment. Cells were fluorescently stained with ABflo® 450 Rabbit anti-Human CD3 mAb (A27177,5 µL/Test), PE Rabbit anti-Human CD25 mAb (A26773,5 µL/Test), ABflo® 647 Rabbit anti-Human CD69 mAb (A25892,5 µL/Test). The degree of T cell activation are defined as CD25+CD69+ cells on CD3+ T cells gate.