

Human T Cell Activation Kit™Anti-CD3/CD28™

Catalog No.: RK40100

Basic Information

Observed MW

Calculated MW

Category

Primary antibody

Applications

FC,in vitro T cell stimulation/activation

Cross-Reactivity

Human

CloneNo number

AMC50002/ARC5173-07

Background

T cells are activated by signaling through ITAM (immunoreceptor tyrosine-based activation motif)-containing CD3 signaling chains that associate with the T cell receptor . Co-stimulation through CD28 on T cells provides an additional signal required for effective T cell activation. CD3: Is a complex composed of 4 distinct subunits, Delta (CD3 γ), Epsilon (CD3 ϵ), Gamma (CD3 γ), and Zeta (CD3 ζ). It is a surface structure associated with the T-cell receptor (TCR) to form a complex involved in antigen recognition and signal transduction. CD3 is a pan-T-cell marker and is expressed by thymocytes and all mature T cells of the peripheral blood and lymphoid tissues. CD28: is a 44 kD disulfide-linked homodimeric type I glycoprotein. It is a member of the immunoglobulin superfamily and is also known as T44 or Tp44. CD28 is expressed on most T lineage cells, NK cell subsets, and plasma cells.

Recommended Dilutions

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

Immunogen Information

Gene ID

Swiss Prot

Immunogen

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

Synonyms

Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

Product Information

Source

Mouse/Rabbit

Isotype

mouse IgG2a/Rabbit IgG

Purification

Affinity purification

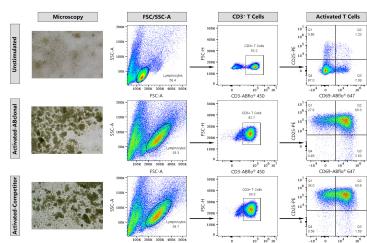
Storage

Store at 2-8°C. Avoid freeze.

Buffer: 0.2 μ m filtered in acetate-buffered solution (CD3 mAb), pH 5.5, containing no preservative/0.2 μ m filtered in phosphate-buffered solution (CD28 mAb), pH 7.2, containing no preservative.

Endotoxin Level: Less than 0.01 EU/ μ g of the protein (< 0.001 ng/ μ g 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 μ L/Test), PE Rabbit anti-Human CD25 mAb (A26773, 5 μ L/Test), ABflo® 647 Rabbit anti-Human CD69 mAb (A25892, 5 μ L/Test). The degree of T cell activation are defined as CD25+CD69+ cells on CD3+ T cells gate.