10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-CD28-AcalephFluor594-labled

Catalog # AP101423

## Product Information

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|---|---|
| **Application** | FC, IF/IC |
| **Primary Accession** | P10747 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Calculated MW** | 25066 |

## Additional Information

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|---|---|
| **Gene ID** | 940 |
| **Other Names** | T-cell-specific surface glycoprotein CD28; TP44; CD28 |
| **Target/Specificity** | Recognizes human CD28 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | CD28 |
| **Function** | Receptor that plays a role in T-cell activation, proliferation, survival and the maintenance of immune homeostasis (PubMed:1650475, PubMed:7568038). Functions not only as an amplifier of TCR signals but delivers unique signals that control intracellular biochemical events that alter the gene expression program of T-cells (PubMed:24665965). Stimulation upon engagement of its cognate ligands CD80 or CD86 increases proliferation and expression of various cytokines in particular IL2 production in both CD4(+) and CD8(+) T-cell subsets (PubMed:12196291, PubMed:1650475, PubMed:35397202). Mechanistically, ligation induces recruitment of protein kinase C-theta/PRKCQ and GRB2 leading to NF-kappa-B activation via both PI3K/Akt-dependent and -independent pathways (PubMed:21964608, PubMed:24665965, PubMed:7568038). In conjunction with TCR/CD3 ligation and CD40L costimulation, enhances the production of IL4 and IL10 in T- cells (PubMed:8617933). |
| **Cellular Location** | Cell membrane; Single-pass type I membrane protein |
| **Tissue Location** | Expressed in T-cells and plasma cells, but not in less mature B-cells |

## Background

AcalephFluor594-labled mouse monoclonal antibody to CD28

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.