

# Anti-CD28 Reference Antibody (FR104)

Recombinant Antibody

Catalog # APR10493

## Product Information

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<b>Application</b>	FC, Kinetics, Animal Model
<b>Primary Accession</b>	<a href="#">P10747</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2SA
<b>Calculated MW</b>	25066

## Additional Information

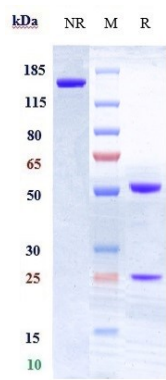
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<b>Target/Specificity</b>	CD28
<b>Endotoxin</b>	
<b>Conjugation</b>	Unconjugated
<b>Expression system</b>	CHO Cell
<b>Format</b>	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

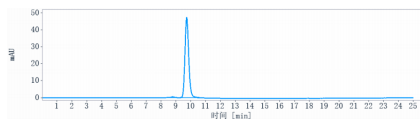
## Protein Information

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<b>Name</b>	CD28
<b>Function</b>	Receptor that plays a role in T-cell activation, proliferation, survival and the maintenance of immune homeostasis (PubMed: <a href="#">1650475</a> , PubMed: <a href="#">7568038</a> ). 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: <a href="#">24665965</a> ). 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: <a href="#">1650475</a> , PubMed: <a href="#">35397202</a> ). 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: <a href="#">21964608</a> , PubMed: <a href="#">24665965</a> , PubMed: <a href="#">7568038</a> ). In conjunction with TCR/CD3 ligation and CD40L costimulation, enhances the production of IL4 and IL10 in T-cells (PubMed: <a href="#">8617933</a> ).
<b>Cellular Location</b>	Cell membrane; Single-pass type I membrane protein
<b>Tissue Location</b>	Expressed in T-cells and plasma cells, but not in less mature B-cells



Anti-CD28 Reference Antibody (FR104) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-CD28 Reference Antibody (FR104) is more than 98.98% ,determined by SEC-HPLC.

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