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Anti-CD28 Reference Antibody (FR104)

Recombinant Antibody
Catalog # APR10493

Specification

Anti-CD28 Reference Antibody (FR104) - Product Information

Application	**FC, Kinetics, Animal Model**
Primary Accession	P10747
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**IgG2SA**
Calculated MW	**145 KDa**

Anti-CD28 Reference Antibody (FR104) - Additional Information

Target/Specificity
CD28

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-CD28 Reference Antibody (FR104) - Protein Information

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: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

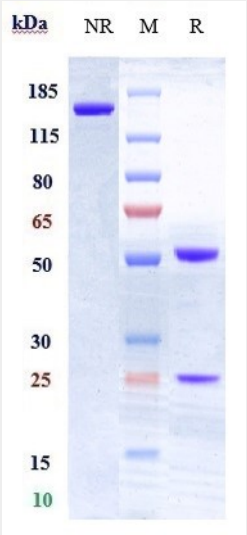
Tissue Location
Expressed in T-cells and plasma cells, but not in less mature B-cells

Anti-CD28 Reference Antibody (FR104) - Protocols

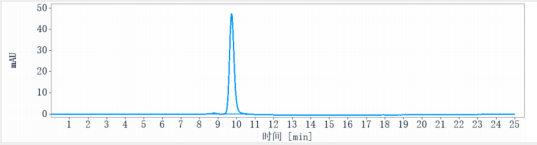
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CD28 Reference Antibody (FR104) - Images



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.