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Anti-CD28 Reference Antibody (TGN-1412)

Catalog # APR11241

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P10747
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP-Opti
Calculated MW	25066

Additional Information

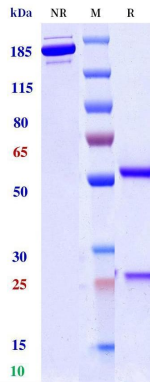
Target/Specificity	CD28
Expression system	CHO

Protein Information

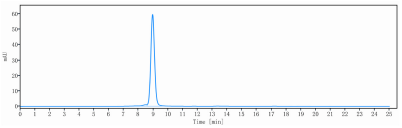
Name	CD28
Function	Receptor that plays a role in T-cell activation, proliferation, survival and the maintenance of immune homeostasis (PubMed:1650475, PubMed:7568038). Functions not only as an amplifier of TCR signals but delivers unique signals that control intracellular biochemical events that alter 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: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

Images

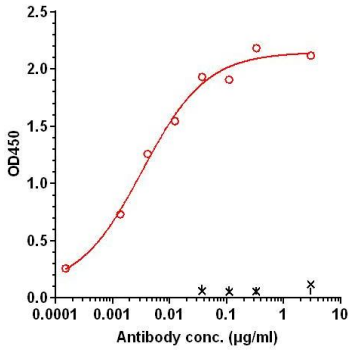
Anti-CD28 Reference Antibody (TGN-1412) on SDS-PAGE under reducing (R) condition. The purity of the protein is



greater than 95%.



The purity of Anti-CD28 Reference Antibody (TGN-1412) is 97.84%, determined by SEC-HPLC.



Immobilized Human CD28 Protein, His Tag at 2 μg/mL can bind TGN-1412(Anti-CD28) , EC50= 0.003347 μg/mL.

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