

DESCRIPTION

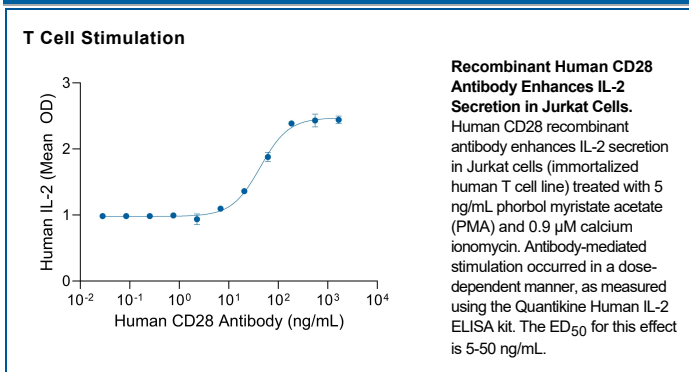
Species Reactivity	Human
Specificity	Detects human CD28 in direct ELISAs.
Source	Recombinant Monoclonal Human IgG ₁ Clone # 29704-1
Purification	Protein G purified from cell culture supernatant
Immunogen	Human T lymphocytes
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
T Cell Stimulation	3 µg/mL	Human PBMCs

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute lyophilized material at 0.2mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The Bio-Techne CD28 GMP antibody is derived from the 15e8 clone. CD28 is a critical protein expressed on the surface of T cells that provides a co-stimulatory signal necessary for T cell activation and proliferation. CD28 is structurally similar to CTLA-4, with both molecules exhibiting structural homology to the immunoglobulin (Ig) gene superfamily. CD28 and CTLA-4, together with their ligands, B7-1 and B7-2, constitute one of the dominant co-stimulatory pathways that regulate T and B cell responses. Both CD28 and CTLA-4 are composed of a single Ig V-like extracellular domain, a transmembrane domain, and an intracellular domain. CD28 and CTLA-4 are both expressed on the cell surface as disulfide-linked homodimers or as monomers. The genes encoding these two molecules are closely linked on human chromosome 2.