

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD28 in direct ELISAs
Source	Monoclonal Human IgG ₁ Clone # 29704-1
Purification	Protein G purified from cell culture supernatant
Immunogen	Human T lymphocytes
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

T Cell Stimulation	Optimal dilution of this antibody should be experimentally determined.
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PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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