

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 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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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