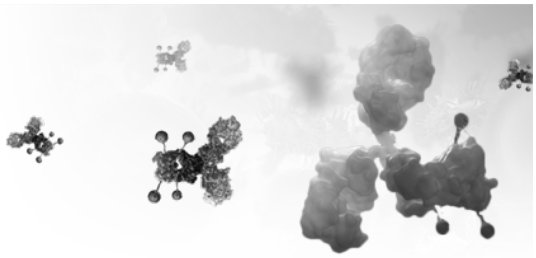

Mouse Anti-Human CD28 Monoclonal antibody, clone 9.3 (CABT-L4496)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The 9.3 monoclonal antibody reacts with human CD28, a 45 kDa costimulatory receptor and a member of the Ig superfamily. CD28 is expressed by thymocytes, most peripheral T cells, and NK cells. CD28 is a receptor for CD80 (B7-1) and CD86 (B7-2). Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells. The 9.3 antibody has been shown to stimulate the proliferation of human T cells in vitro.
Target	Human CD28
Immunogen	Human T lymphocytes
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	9.3
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vitro T cell stimulation/activation
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific

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Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The protein encoded by this gene is essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Keywords	Tp44, T44

GENE INFORMATION

Official Symbol	CD28 molecule
Synonyms	Tp44, T44
References	Bushkin, Y., et al. (2015). "Profiling T cell activation using single-molecule fluorescence in situ hybridization and flow cytometry." J Immunol 194(2): 836-841. PubMed;

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