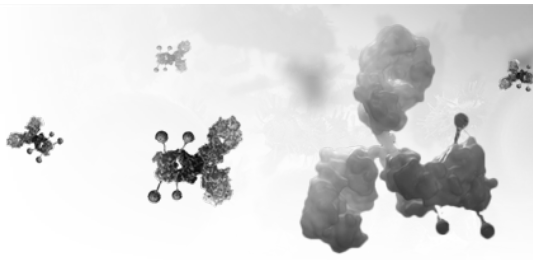

Syrian Hamster Anti-Mouse CD28 Monoclonal antibody, clone 37.51 (CABT-L4358)

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

PRODUCT INFORMATION

Product Overview	The 37.51 monoclonal antibody reacts with mouse 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 37.51 antibody has been shown to stimulate the proliferation and cytokine production by activated T and NK cells and provide a costimulatory signal for CTL induction.
Target	Mouse CD28
Immunogen	C57BL/6 mouse T cell lymphoma EL-4 cells
Isotype	IgG2
Source/Host	Syrian Hamster
Species Reactivity	Mouse
Clone	37.51
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vitro?T cell stimulation/activation, in vivo CD28 blockade
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 6.0 0.01% Tween. 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-LB03
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	Lacher, S. M., et al. (2018). "NF-kappaB inducing kinase (NIK) is an essential post-transcriptional regulator of T-cell activation affecting F-actin dynamics and TCR signaling." J Autoimmun 94: 110-121. PubMed;Xiao, N., et al. (2014). "The E3 ubiquitin ligase Itch is required for the differentiation of follicular helper T cells." Nat Immunol 15(7): 657-666. PubMed;Choi, Y. S., et al. (2013). "Bcl6 expressing follicular helper CD4 T cells are fate committed early and have the capacity to form memory." J Immunol 190(8): 4014-4026. PubMed;Eberlein, J., et al. (2012). "Multiple layers of CD80/86-dependent costimulatory activity regulate primary, memory, and secondary lymphocytic choriomeningitis virus-specific T cell immunity." J Virol 86(4): 1955-1970. PubMed;Angkasekwinai, P., et al. (2010). "Regulation of IL-9 expression by IL-25 signaling." Nat Immunol 11(3): 250-256. PubMed

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