

Product Datasheet

CD28 Antibody (37407) [Unconjugated] MAB342-SP

Unit Size: 25 ug

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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.

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MAB342-SP

CD28 Antibody (37407) [Unconjugated]

Product Information	
Unit Size	25 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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.
Clonality	Monoclonal
Clone	37407
Preservative	No Preservative
Reconstitution Instructions	Reconstitute at 0.5 mg/mL in sterile PBS.
Isotype	IgG1
Conjugate	Unconjugated
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. *Small pack size (SP) is supplied as a 0.2 µm filtered solution in PBS.

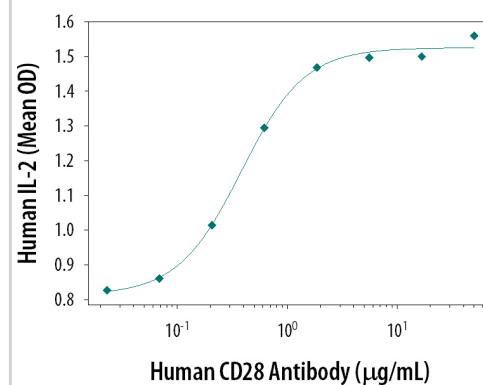
Product Description	
Host	Mouse
Gene ID	940
Gene Symbol	CD28
Species	Human
Specificity/Sensitivity	Detects human CD28 in Western blots. In Western blots, this antibody does not cross-react with recombinant mouse (rm) CD28, rhCTLA4, or rmCTLA4.
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human CD28 Asn19-Pro152 Accession # P10747
Notes	This product is produced by and ships from R&D Systems, Inc., a Bio-Techne brand.
Endotoxin Note	<0.10 EU per 1 µg of the antibody by the LAL method.

Product Application Details	
Applications	Western Blot, Agonist Activity
Recommended Dilutions	Western Blot 1 ug/mL, Agonist Activity 0.2-0.6 ug/mL



Images

Human CD28 Monoclonal Antibody enhances IL-2 secretion in the Jurkat human acute T cell leukemia cell line stimulated with 10 ng/mL phorbol myristate acetate (PMA) and 0.5 μ M calcium ionophore, in a dose-dependent manner, as measured using the Quantikine Human IL-2 ELISA Kit (Catalog # [D2050](#)). The ED50 for this effect is typically 0.2-0.6 μ g/mL.



Publications

C Caër, C Rouault, T Le Roy, C Poitou, J Aron-Wisne, A Torcivia, JC Bichet, K Clément, M Guerre-Mil, S André Immune cell-derived cytokines contribute to obesity-related inflammation, fibrogenesis and metabolic deregulation in human adipose tissue *Sci Rep*, 2017;7(1):3000. 2017 [PMID: 28592801] (Flow, , Human)

S Nakachi, S Sumitomo, Y Tsuchida, H Tsuchiya, M Kono, R Kato, K Sakurai, N Hanata, Y Nagafuchi, S Tateishi, H Kanda, T Okamura, K Yamamoto, K Fujio Interleukin-10-producing LAG3(+) regulatory T cells are associated with disease activity and abatacept treatment in rheumatoid arthritis *Arthritis Res. Ther.*, 2017;19(1):97. 2017 [PMID: 28511719] (Functional Assay, , Human)

Foley M, Forcier T, McAndrew E, Gonzalez M, Chen H, Juelg B, Walker B, Irvine D High avidity CD8+ T cells efficiently eliminate motile HIV-infected targets and execute a locally focused program of anti-viral function. *PLoS ONE*, 2014;9(2):e87873. 2014 [PMID: 24551068] (Functional Assay, , Human)

Van Belle T, Vanherwegen A, Feyaerts D, De Clercq P, Verstuyf A, Korf H, Gysemans C, Mathieu C 1,25-Dihydroxyvitamin D3 and its analog TX527 promote a stable regulatory T cell phenotype in T cells from type 1 diabetes patients. *PLoS ONE*, 2014;9(10):e109194. 2014 [PMID: 25279717]

Dalmas E, Venteclef N, Caer C, Poitou C, Cremer I, Aron-Wisnewsky J, Lacroix-Desmazes S, Bayry J, Kaveri S, Clement K, Andre S, Guerre-Millo M T cell-derived IL-22 amplifies IL-1beta-driven inflammation in human adipose tissue: relevance to obesity and type 2 diabetes. *Diabetes*, 2014;63(6):1966-77. 2014 [PMID: 24520123] (Neut, , Human)

C Tao, H Shao, W Zhang, H Bo, F Wu, H Shen, S Huang ??TCR immunoglobulin constant region domain exchange in human ??TCRs improves TCR pairing without altering TCR gene-modified T cell function *Mol Med Rep*, 2017;0(0):. 2017 [PMID: 28259946] (Bioassay, , Human)

Zhu L, Huang Z, Stalesen R, Hansson G, Li N Platelets provoke distinct dynamics of immune responses by differentially regulating CD4+ T-cell proliferation. *J Thromb Haemost*, 2014;12(7):1156-65. 2014 [PMID: 24833264] (Bioassay, , Human)

Wolk K, Kunz S, Witte E, Friedrich M, Asadullah K, Sabat R IL-22 increases the innate immunity of tissues. *Immunity*, 2004;21(2):241-54. 2004 [PMID: 15308104] (Functional Assay, , Human)

Wolk K, Witte E, Warszawska K, Schulze-Tanzil G, Witte K, Philipp S, Kunz S, Docke WD, Asadullah K, Volk HD, Sterry W, Sabat R The Th17 cytokine IL-22 induces IL-20 production in keratinocytes: a novel immunological cascade with potential relevance in psoriasis. *Eur. J. Immunol.*, 2009;39(12):3570-81. 2009 [PMID: 19830738] (Functional Assay, , Human)

Hirosako S, Goto E, Fujii K, Tsumori K, Hirata N, Tsumura S, Kamohara H, Kohrogi H Human bronchial intraepithelial T cells produce interferon-gamma and stimulate epithelial cells. *Clin. Exp. Immunol.*, 2009;155(2):266-74. 2009 [PMID: 19040600] (Functional Assay, , Human)

Bayry J, Triebel F, Kaveri SV, Tough DF Human dendritic cells acquire a semimature phenotype and lymph node homing potential through interaction with CD4+CD25+ regulatory T cells. *J. Immunol.*, 2007;178(7):4184-93. 2007 [PMID: 17371975] (Functional Assay, , Human)

Mamoni RL, Blotta MH Flow-cytometric analysis of cytokine production in human paracoccidioidomycosis. *Cytokine*, 2006;35(3):207-16. 2006 [PMID: 17045486] (Functional Assay, , Human)

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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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