

PE/Cy7 anti-mouse CD28

Catalog # / Size: 1110625 / 25 µg
1110630 / 100 µg

Clone: 37.51

Isotype: Hamster IgG

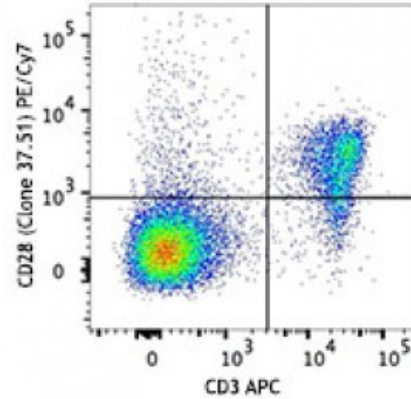
Immunogen: C57BL/6 mouse T-cell lymphoma EL-4

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



C57BL/6 mouse splenocytes were stained with CD3 APC and CD28 (clone 37.51) PE/Cy7.

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.125 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation¹, *in vitro* costimulation of T and NK cells¹, *in vitro* blocking of allogeneic mixed leukocyte response and inhibition of MHC-unrestricted CTL cytotoxicity^{3,4}, *in vitro* induction of thymocyte differentiation^{2,5-9,11}, and immunohistochemical staining of acetone-fixed frozen sections. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 102112). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 102116) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

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Application 1. Gross JA, et al. 1992. *J. Immunol.* 149:380. (IP, Costim)

- References:**
2. Cibotti R, *et al.* 1997. *Immunity* 6:245. (Costim)
 3. Masten BJ, *et al.* 1997. *Am. J. Respir. Cell Mol. Biol.* 16:335. (Block)
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 5. Zhang N and He Y-W, 2005. *J. Exp. Med.* 202:395. (Costim)
 6. Terrazas LI, *et al.* 2005. *Intl. J. Parasitology.* 35:1349. (Costim)
 7. Perchonock CE, *et al.* 2006. *Mol Cell Biol.* 26(16):6005. (Costim)
 8. Wang W, *et al.* 2007. *J. Immunol.* 178:4885. (Costim)
 9. Pua HH, *et al.* 2007. *J. Exp. Med.* 204:25. (Costim)
 10. Perchonock CE, *et al.* 2007. *J. Immunol.* 179:1768.
 11. Barbi J, *et al.* 2007. *Blood* 110:2215.
 12. Milpied P, *et al.* 2011. *Blood* 118:2993. [PubMed](#)
 13. Cunningham NR, *et al.* 2011. *Int Immunol.* 23:693. [PubMed](#)
 14. Crispin JC, *et al.* 2012. *J. Immunol.* 188:3567. [PubMed](#)
 15. Li CR, *et al.* 2014. *J Immunol.* 192:1425. [PubMed](#)
 16. Blankenhaus B, *et al.* 2014. *PLoS Pathog.* 10:1003913. [PubMed](#)
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Description: CD28 is a 44 kD glycoprotein, also known as Tp44 or T44. It is a member of the Ig superfamily, expressed on thymocytes, most peripheral T cells, and NK cells. In association with CD80 (B7-1) and CD86 (B7-2), CD28 acts as the second signal for T and NK cell activation and proliferation. The 37.51 antibody has been reported to augment *in vitro* T cell proliferation and cytokine production, and promote CTL development.

- Antigen**
- References:**
1. Barclay AN, *et al.* 1997. *The Leukocyte Antigen FactsBook* Academic Press.
 2. Lenschow DJ, *et al.* 1996. *Annu. Rev. Immunol.* 14:233.
 3. Gross JA, *et al.* 1992. *J. Immunol.* 149:380.