

Biotin anti-mouse CD25

Catalog # / Size: 1110020 / 500 µg
1110015 / 50 µg

Clone: PC61

Isotype: Rat IgG1, λ

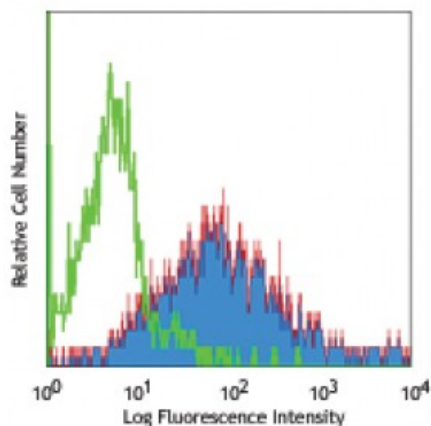
Immunogen: IL-2-dependent cytolytic mouse T-cell clone B6.1

Reactivity: Mouse

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

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

Concentration: 0.5



Con A-stimulated C57BL/6 splenocytes (3 days) stained with PC 61 biotin, followed by Sav-PE

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 ≤ 0.25 microg per 10⁶ cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation^{1,2}, *in vitro* blocking of IL-2 binding to low- and high-affinity receptors¹⁻⁴, growth inhibition of IL-2-dependent T-cell lines¹⁻⁴, *in vivo* depletion of CD25⁺CD4⁺ Treg cells^{5-8,10}, and immunohistochemical staining of acetone-fixed frozen sections². PC61 antibody recognizes a different epitope than 3C7 antibody (Cat. No. 101902). The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 102014). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 102040) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

- Application References:**
1. Lowenthal JW, *et al.* 1985. *Nature* 315:669. (IP, Block)
 2. Ceredig R, *et al.* 1985. *Nature* 314:98. (IP, IHC, Block)
 3. Lowenthal JW, *et al.* 1985. *J. Immunol.* 135:3988. (Block)
 4. Moreau JL, *et al.* 1987. *Eur. J. Immunol.* 17:929. (Block)
 5. Takahashi T, *et al.* 2000. *J. Exp. Med.* 192:303. (Deplete)
 6. Onizuka S, *et al.* 1999. *Cancer Res.* 59:3128. (Deplete)
 7. Lei TC, *et al.* 2005. *Blood* 105:4865. (Deplete)
 8. Pasare C, *et al.* 2004. *Immunity* 21:733. (Deplete)
 9. Fukushima A, *et al.* 2006. *Biochem Biophys Res Commun.* 339:1048. [PubMed](#)
 10. León-Ponte M, *et al.* 2007. *Blood* 109:3139.
 11. Cao OW, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-073304. (Deplete)
 12. Benson MJ, *et al.* 2007. *J. Exp. Med.* doi:10.1084/jem.20070719.

Description: CD25 is a 55 kD glycoprotein also known as the low affinity IL-2Rα, Ly-43, p55, or Tac. It is expressed on activated T and B cells, thymocyte subsets, pre-B cells,

and T regulatory cells. In association with CD122 (IL-2R β) and CD132 (common γ chain), CD25 forms the high affinity signaling IL-2 receptor.

Antigen
References:

1. Taniguchi T, *et al.* 1993. *Cell* 73:5.
2. Waldmann TA. 1991. *J. Biol. Chem.* 266:2681.
3. Read S, *et al.* 2000. *J. Exp. Med.* 192:295.
4. Lowenthal JW, *et al.* 1985. *J. Immunol.*