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FITC Anti-Mouse CD25 (PC61.5) Antibody
Catalog # ATB10436

Specification

FITC Anti-Mouse CD25 (PC61.5) Antibody - Product Information

Application	**FC**
Isotype	**Rat IgG1, lambda**
Concentration	**0.5mg/ml**
Reactivity	**Mouse**
Formulation	**10mM NaH2PO4, 150 mM NaCl, 0.09% NaN3,0.1%gelatin,pH7.2 0.1% gelatin, pH7.2**

FITC Anti-Mouse CD25 (PC61.5) Antibody - Additional Information

Gene ID	**16184**
Gene Name	**Il2ra**

Alternative Name(s)
Interleukin-2 Receptor alpha, IL-2R alpha, Ly-43, p55, Tac

Format
FITC

Storage Conditions
2-8°C protected from light

FITC Anti-Mouse CD25 (PC61.5) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FITC Anti-Mouse CD25 (PC61.5) Antibody - Images

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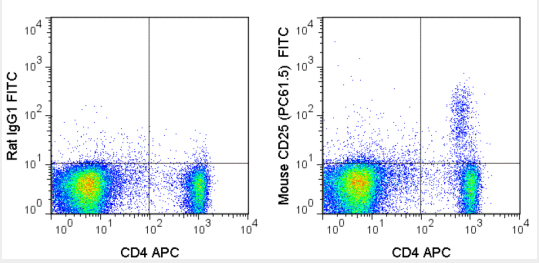

C57Bl/6 splenocytes were stained with APC Anti-Mouse CD4 (20-0041) and 0.125 ug FITC Anti-Mouse CD25 (ATB10436) (right panel) or 0.125 ug FITC Rat IgG1 (left panel).

FITC Anti-Mouse CD25 (PC61.5) Antibody - Background

The PC61.5 antibody is specific for mouse CD25, a 55 kDa surface protein also known as the Interleukin-2 Receptor alpha chain, or IL-2R alpha. CD25 may bind IL-2 by itself, although with low affinity and without induction of cell signaling. CD25 is also expressed within a high-affinity complex, along with the IL-2R beta chain (CD122) and the common gamma chain (CD132), to form a signaling receptor complex. Expression of CD25 varies during developmental stages of T and B cells, is induced on activated mature T and B cells, and is present on subsets of dendritic cells. CD25 signaling as part of the IL-2 receptor complex triggers T cell activation and proliferation, as well as modulating the differentiation and function of Th17 cells, T regulatory (Treg) cells, and dendritic cells.

The PC61.5 antibody is used as a marker for T cells, B cells and dendritic cell subsets. Expression of CD25, CD4 and the transcription factor Foxp3 is regarded as a phenotypic signature for Treg cells. As such, this antibody is widely used to distinguish Treg cells from naïve or conventional T cells which are CD25-. This clone has also been reported for depletion of Treg cells in vivo. Please choose the appropriate format for each application.

FITC Anti-Mouse CD25 (PC61.5) Antibody - References

Liang D, Zuo A, Shao H, Born WK, O'Brian R, Kaplan HJ, and Sun D. 2012. J. Immunol. 188: 5785-5791. (in vivo blocking)

Yu P, Steel JC, Zhang M, Morris JC, Waitz R, Fasso M, Allison JP, and Waldmann TA. 2012. Proc. Natl. Acad. Sci. 109:6187-6192. (in vivo Treg depletion)

Billiard F, Lobry C, Darrasse-Jeze G, Waite J, Liu et al. 2012. Blood. 119: 4656-4664. (in vivo Treg depletion)

Tang S, Moore ML, Grayson JM and Dubey P. 2012. Cancer Res. 72: 1975-1985. (in vivo Treg depletion)

Lee L-F, Logronio K, Tu GH, Zhai W, Ni I, Mei L, Dilley J, Yu J, et al. 2012. Proc. Natl. Acad. Sci. 10.1073. (Flow cytometry).

10F.9G2, J43, PC61 Koehn BH, Ford ML, Ferrer IR, Borom K, Gangappa S, Kirk AD, and Larsen CP. 2008. J. Immunol. 181:5313-5322. (in vivo blocking)

Leithauser F, Meinhardt-Krajina T, Fink K, Wotschke B, Moller P and Reimann J. 2006. Am. J. Pathol. 168(6): 1898-1909. (Immunohistochemistry – frozen tissue)

Hashimoto N, Nabholz M, MacDonald HR, and Zubler RH. 1986. Eur. J. Immunol. 16(3): 317-320. (Blocking)

Ceredig R, Lowenthal JW, Nabholz M, and MacDonald R. 1985. Nature. 314:98-100 (Immunohistochemistry)

Lowenthal JW, Zulber RH, Nabholz M, and MacDonald HR. 1985. Nature. 315(6021): 669-672. (Immunoprecipitation, Blocking)