

Store at
4°C

IL2-R α /CD25 (PC61.5) Rat mAb (FITC Conjugate)

#63448



Support: +1-978-867-2388 (U.S.)
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Entrez-Gene ID #16184
UniProt ID #P01590

New 04/19

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications
F
Endogenous

Species Cross-Reactivity
M

Isotype
Rat IgG1

Description: This Cell Signaling Technology antibody is conjugated to FITC and tested in-house for direct flow cytometric analysis in mouse cells.

Background: Interleukin-2 (IL-2) is a T cell stimulatory cytokine best known for inducing T cell proliferation and NK cell proliferation and activation (1,2). IL-2 also promotes peripheral development of regulatory T cells (Tregs) (3,4). Conversely, IL-2 is involved in the activation-induced cell death (AICD) that is observed post T cell expansion by increasing levels of Fas on CD4⁺ T cells (5). The effects of IL-2 are mediated through a trimeric receptor complex consisting of IL-2R α , IL-2R β , and the common gamma chain, γ c (1,2). IL-2R α binds exclusively to IL-2 with low affinity and increases the binding affinity of the whole receptor complex including IL-2R β and γ c subunits. IL-15 also binds to IL-2R β (1,2). γ c is used by other cytokines including IL-4, IL-7, IL-9, IL-15, and IL-21 (1,2). Binding of IL-2 initiates signaling cascades involving Jak1, Jak3, Stat5, and the PI3K/Akt pathways (1,2).

Specificity/Sensitivity: IL2-R α /CD25 (PC61.5) Rat mAb (FITC Conjugate) recognizes endogenous levels of total IL2-R α /CD25 protein. This antibody detects an epitope within the extracellular domain.

Source/Purification: This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.

Storage: Supplied in 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH 7.2. This product is stable for 6 months when stored at 4°C. *Do not aliquot the antibody. Protect from light. Do not freeze.*

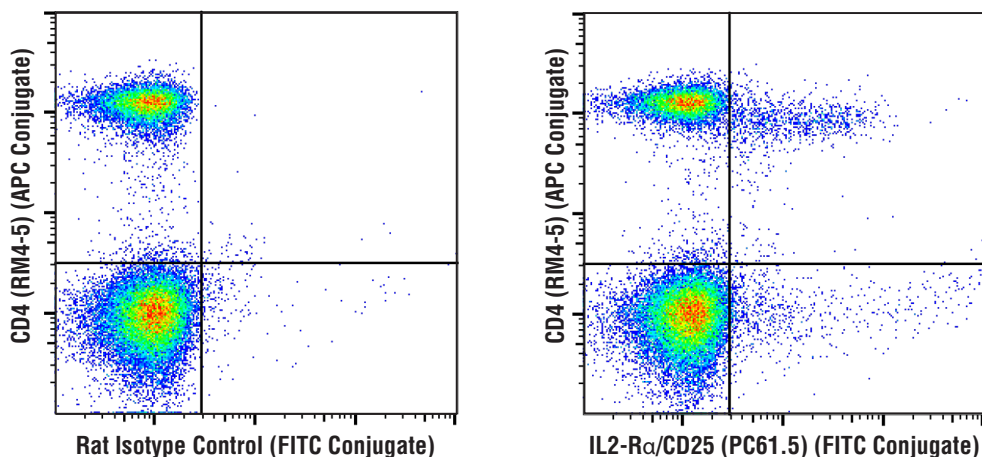
Recommended Antibody Dilutions:

Flow Cytometry 1:400

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

Background References:

- (1) Ma, A. et al. (2006) *Annu Rev Immunol* 24, 657-79.
- (2) Gaffen, S.L. and Liu, K.D. (2004) *Cytokine* 28, 109-23.
- (3) Fehérvari, Z. et al. (2006) *Trends Immunol* 27, 109-11.
- (4) Antony, P.A. et al. (2006) *J Immunol* 176, 5255-66.
- (5) Jaleco, S. et al. (2003) *J Immunol* 171, 61-8.



Flow cytometric analysis of live mouse splenocytes using IL2-R α /CD25 (PC61.5) Rat mAb (FITC Conjugate) and co-stained with CD4 (RM4-5) Rat mAb (APC Conjugate) #82116 (right), compared to concentration-matched Rat Isotype Control (FITC Conjugate) (left).

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.