

## FITC anti-mouse CD25 Antibody

<b>Catalog# / Size</b>	102005 / 50 µg 102006 / 500 µg
<b>Clone</b>	PC61
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	IL-2R $\alpha$ , Ly-43, p55, Tac
<b>Isotype</b>	Rat IgG1, $\lambda$
<b>Description</b>	CD25 is a 55 kD glycoprotein also known as the low affinity IL-2R $\alpha$ , 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 $\beta$ ) and CD132 (common $\gamma$ chain), CD25 forms the high affinity signaling IL-2 receptor.

### Product Details

<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	IL-2-dependent cytolytic mouse T-cell clone B6.1
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is $\leq 1.0$ µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunoprecipitation <sup>1,2</sup> , <i>in vitro</i> blocking of IL-2 binding to low- and high-affinity receptors <sup>1-4</sup> , growth inhibition of IL-2-dependent T-cell lines <sup>1-4</sup> , <i>in vivo</i> depletion of CD25 <sup>+</sup> CD4 <sup>+</sup> Treg cells <sup>5-8,10</sup> , and immunohistochemical staining of acetone-fixed frozen sections <sup>2</sup> . PC61 antibody recognizes a different epitope than 3C7 antibody (Cat. No. 101902). For <i>in vivo</i> studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 102040) with endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered.

### Application References

(PubMed link indicates BioLegend citation)

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## RRID

AB\_312854 (BioLegend Cat. No. 102005)  
AB\_312855 (BioLegend Cat. No. 102006)

## Antigen Details

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<b>Structure</b>	Forms high affinity IL-2R with IL-2R $\beta$ (CD122) and IL-2R $\gamma$ (CD132), 55 kD
<b>Distribution</b>	Activated T cells and B cells, thymocyte subset, pre-B cells, T regulatory cells
<b>Function</b>	IL-2 receptor
<b>Ligand/Receptor</b>	IL-2
<b>Cell Type</b>	B cells, T cells, Thymocytes, Tregs
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Taniguchi T, <i>et al.</i> 1993. <i>Cell</i> 73:5-8.</li><li>2. Waldmann TA. 1991. <i>J Biol Chem.</i> 266:2681-4.</li><li>3. Read S, <i>et al.</i> 2000. <i>J Exp Med.</i> 192:295-302.</li><li>4. Lowenthal JW, <i>et al.</i> 1985. <i>J Immunol.</i> 135:3988-94.</li></ol>

## Gene ID

[16184](#)

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

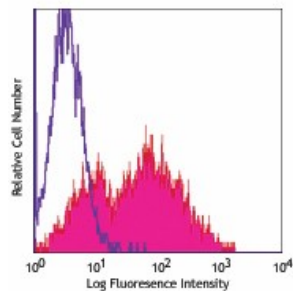
## Other Formats

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APC anti-mouse CD25, Biotin anti-mouse CD25, FITC anti-mouse CD25, PE anti-mouse CD25, PE/Cyanine5 anti-mouse CD25, Purified anti-mouse CD25, PE/Cyanine7 anti-mouse CD25, Alexa Fluor® 488 anti-mouse CD25, Alexa Fluor® 647 anti-mouse CD25, Pacific Blue™ anti-mouse CD25, Alexa Fluor® 700 anti-mouse CD25, APC/Cyanine7 anti-mouse CD25, PerCP/Cyanine5.5 anti-mouse CD25, PerCP anti-mouse CD25, Brilliant Violet 421™ anti-mouse CD25, Brilliant Violet 605™ anti-mouse CD25, Brilliant Violet 650™ anti-mouse CD25, Ultra-LEAF™ Purified anti-mouse CD25, Brilliant Violet 510™ anti-mouse CD25, PE/Dazzle™ 594 anti-mouse CD25, Brilliant Violet 711™ anti-mouse CD25, Brilliant Violet 785™ anti-mouse CD25, Alexa Fluor® 594 anti-mouse CD25, APC/Fire™ 750 anti-mouse CD25, TotalSeq™-A0097 anti-mouse CD25, KIRAVIA Blue 520™ anti-mouse CD25, TotalSeq™-B0097 anti-mouse CD25, TotalSeq™-C0097 anti-mouse CD25, Spark NIR™ 685 anti-mouse CD25 Antibody, PE/Fire™ 640 anti-mouse CD25, Spark YG™ 581 anti-mouse CD25, APC/Fire™ 810 anti-mouse CD25

## Product Data

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Con-A Stimulated (3 days) BALB/c mouse splenocytes stained with PC61 FITC

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