

## Alexa Fluor® 647 anti-human CD25 Antibody

<b>Catalog# / Size</b>	302617 / 25 tests 302618 / 100 tests
<b>Clone</b>	BC96
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V T-072
<b>Other Names</b>	Low affinity IL-2R, IL-2R $\alpha$ chain, Tac, p55
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD25 is a 55 kD type I transmembrane glycoprotein also known as the low affinity IL-2 receptor $\alpha$ chain or Tac. It is expressed on progenitor lymphocytes, activated T and B cells, and activated monocytes/macrophages. CD25 is also expressed on a subset of non-stimulated CD4 <sup>+</sup> T cells termed T regulatory cells. CD25 associates with the IL-2 receptor $\beta$ (CD122) and common $\gamma$ chains (CD132) to form the high affinity IL-2R complex.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Baboon, Chimpanzee, Cynomolgus, Pigtailed Macaque, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<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 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.  * Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.  Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.  <a href="#">View full statement regarding label licenses</a>
<b>Excitation Laser</b>	Red Laser (633 nm)
<b>Application Notes</b>	Additional reported applications include: immunocytochemistry <sup>3</sup> .
<b>Application References</b>	1. Schlossman S, <i>et al.</i> Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Kmiecik M, <i>et al.</i> 2009. <i>J. Transl. Med.</i> 7:89. (FC) <a href="#">PubMed</a> 3. Ernst CW, <i>et al.</i> 2007. <i>Clin. Exp. Immunol.</i> 148:271. (ICC) <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	1. Lin JR <i>et al.</i> 2018. <i>eLife.</i> 7 pii: e31657. <a href="#">PubMed</a> 2. Kilpelainen A, <i>et al.</i> 2022. <i>Front Immunol.</i> 13:815041. <a href="#">PubMed</a> 3. Tiittanen M, <i>et al.</i> 2013. <i>PLoS One.</i> 7:78420. <a href="#">PubMed</a> 4. Singh KS, <i>et al.</i> 2021. <i>Nature.</i> 589:597. <a href="#">PubMed</a>

5. Keck S, *et al.* 2021. Cellular and Molecular Gastroenterology and Hepatology. 12(2):507-545.  
[PubMed](#)

**RRID** AB\_493046 (BioLegend Cat. No. 302617)  
AB\_493045 (BioLegend Cat. No. 302618)

## Antigen Details

<b>Structure</b>	Type I transmembrane glycoprotein, 55 kD
<b>Distribution</b>	Activated T cells and B cells, monocytes/macrophages, Treg
<b>Function</b>	Associates with IL-2 receptor $\beta$ (CD122) and $\gamma$ chains (CD132) to form high affinity IL-2R complex
<b>Ligand/Receptor</b>	IL-2
<b>Cell Type</b>	B cells, Macrophages, Monocytes, T cells, Tregs
<b>Biology Area</b>	Cell Biology, Immunology, Neuroscience, Neuroscience Cell Markers
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors
<b>Antigen References</b>	1. Taniguchi T, <i>et al.</i> 1993. <i>Cell</i> 73:5. 2. Waldmann T. 1991. <i>J. Biol. Chem.</i> 266:2681.
<b>Gene ID</b>	<a href="#">3559</a>

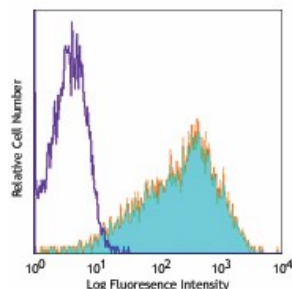
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

APC anti-human CD25, FITC anti-human CD25, PE anti-human CD25, PE/Cyanine5 anti-human CD25, Purified anti-human CD25, APC/Cyanine7 anti-human CD25, PE/Cyanine7 anti-human CD25, Alexa Fluor® 488 anti-human CD25, Alexa Fluor® 647 anti-human CD25, Pacific Blue™ anti-human CD25, Alexa Fluor® 700 anti-human CD25, Biotin anti-human CD25, PerCP/Cyanine5.5 anti-human CD25, Brilliant Violet 421™ anti-human CD25, Brilliant Violet 605™ anti-human CD25, Brilliant Violet 650™ anti-human CD25, Brilliant Violet 711™ anti-human CD25, Brilliant Violet 785™ anti-human CD25, Brilliant Violet 510™ anti-human CD25, APC/Fire™ 750 anti-human CD25, TotalSeq™-A0085 anti-human CD25, PE/Dazzle™ 594 anti-human CD25, TotalSeq™-B0085 anti-human CD25, TotalSeq™-C0085 anti-human CD25, TotalSeq™-D0085 anti-human CD25

## Product Data



PHA-stimulated (3 day) human peripheral blood lymphocytes were stained with CD25 (clone BC96) Alexa Fluor® 647 (filled histogram) or mouse IgG1,  $\kappa$  Alexa Fluor® 647 isotype control (open histogram).

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