

## Brilliant Violet 785™ anti-human CD25 Antibody

<b>Catalog# / Size</b>	302637 / 25 tests 302638 / 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 Brilliant Violet 785™ 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>	<p>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 <math>\mu</math>l per million cells in 100 <math>\mu</math>l staining volume or 5 <math>\mu</math>l per 100 <math>\mu</math>l of whole blood.</p> <p>Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. <b>Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.</b> Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Application Notes</b>	Additional reported applications include: immunocytochemistry <sup>3</sup> .
<b>Application References</b>	

**(PubMed link indicates BioLegend citation)**

1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
2. Kmiecik M, *et al.* 2009. *J. Transl. Med.* 7:89. (FC) [PubMed](#)
3. Ernst CW, *et al.* 2007. *Clin. Exp. Immunol.* 148:271. (ICC) [PubMed](#)

**Product Citations**

1. Marques RM, *et al.* 2021. *Cell Death Differ.* 28:3140. [PubMed](#)
2. Westernberg L, *et al.* 2016. *J Allergy Clin Immunol.* 138:571-578. [PubMed](#)
3. Ehlers L, *et al.* 2021. *The FASEB Journal.* 35(7):e21684. [PubMed](#)
4. Oh DY, *et al.* 2020. *Cell.* 181:1612. [PubMed](#)
5. Lo Tartaro D, *et al.* 2022. *Cells.* 11:. [PubMed](#)
6. Festag J, *et al.* 2020. *Mol Ther Nucleic Acids.* 1.330555556. [PubMed](#)
7. Mathewson ND, *et al.* 2021. *Cell.* 184(5):1281-1298.e26. [PubMed](#)
8. Sparber F, *et al.* 2019. *Cell Host Microbe.* 25:389. [PubMed](#)
9. Hara T, *et al.* 2021. *Cancer Cell.* 39(6):779-792.e11. [PubMed](#)
10. Nobs SP, *et al.* 2017. *J Exp Med.* 214:3015. [PubMed](#)

**RRID**

AB\_11219197 (BioLegend Cat. No. 302637)  
AB\_2563808 (BioLegend Cat. No. 302638)

## Antigen Details

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<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

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[Cell Surface Flow Cytometry Staining Protocol](#)

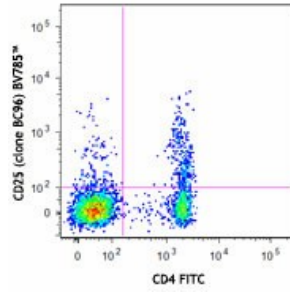
## Other Formats

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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

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Human peripheral blood lymphocytes were stained with CD4 FITC and CD25 (clone BC96) Brilliant Violet 785™.

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