

Brilliant Violet 421™ anti-rat CD25 Antibody

Catalog# / Size	202115 / 50 µg
Clone	OX-39
Regulatory Status	RUO
Other Names	IL-2 receptor chain α , IL-2R α , low affinity IL-2 receptor chain, Tac, p55, Ly-43
Isotype	Mouse IgG1, κ
Description	CD25 is a 55 kD glycoprotein also known as IL-2 receptor α chain. It is broadly expressed on activated T and B cells, a subset of thymic and splenic dendritic cells, and intestinal epithelial cells in the rat. IL-2 is a critical cytokine involved in lymphocyte proliferation and clonal expansion. IL-2 signaling requires the high affinity IL-2 receptor composed of IL-2 receptor chains α , β , and γ . The OX-39 antibody weakly inhibits IL-2 binding to the IL-2 receptor and has been shown to block some IL-2 mediated responses <i>in vitro</i> .

Product Details

Verified Reactivity	Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Rat T cell blasts from mixed lymphocyte reactions
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</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>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen sections ¹ , immunoprecipitation ¹ , weakly blocks IL-2 binding ^{1,2,3} , and blocks IL-2 induced epithelial cell migration ³ .

Application References

(PubMed link indicates BioLegend citation)

1. Peterson DJ, *et al.* 1987. *Mol. Immunol.* 24:1281. (IHC, IP, Block)
2. Tellides G, *et al.* 1987. *Transplant Proc.* 19:4231. (Block)
3. Digness AU, *et al.* 1996. *Exp.Cell Res.* 225:422. (Block)

RRID AB_3662392 (BioLegend Cat. No. 202115)

Antigen Details

Structure	Type I membrane glycoprotein, 55 kD
Distribution	Activated T cells and B cells, thymic and splenic dendritic cells, intestinal epithelial cells
Function	Low affinity receptor for IL-2; associates with IL-2 receptor β (CD122) and γ (CD132) chains to form high affinity receptor
Ligand/Receptor	IL-2
Cell Type	B cells, Dendritic cells, Epithelial cells, T cells
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	1. Digness AU, <i>et al.</i> 1996. <i>Exp.Cell Res.</i> 225:422. 2. Peterson DJ, <i>et al.</i> 1987. <i>Mol. Immunol.</i> 24:1281.
Gene ID	16184

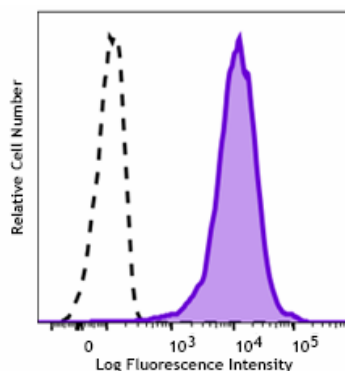
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-rat CD25, PE anti-rat CD25, Alexa Fluor® 488 anti-rat CD25, Biotin anti-rat CD25, APC anti-rat CD25, Brilliant Violet 421™ anti-rat CD25

Product Data



Con A stimulated (3-days) rat splenocytes were stained with anti-rat CD25 (clone OX-39) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (open histogram).

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