PRODUCT INFORMATION

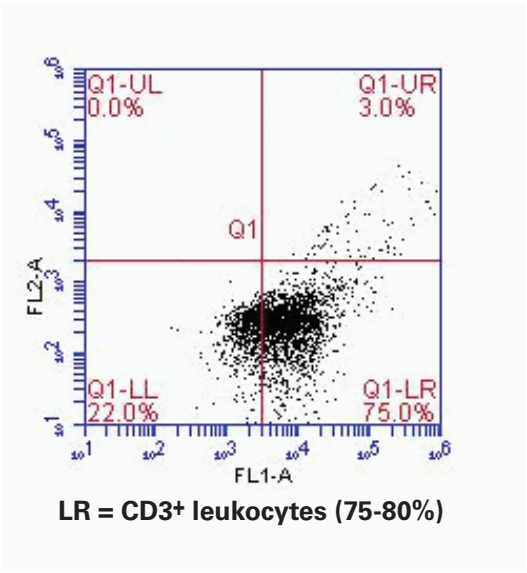
CD25/Interleukin-2Rα Monoclonal Antibody (PE) (Clone 143-13)

Item No. 10339

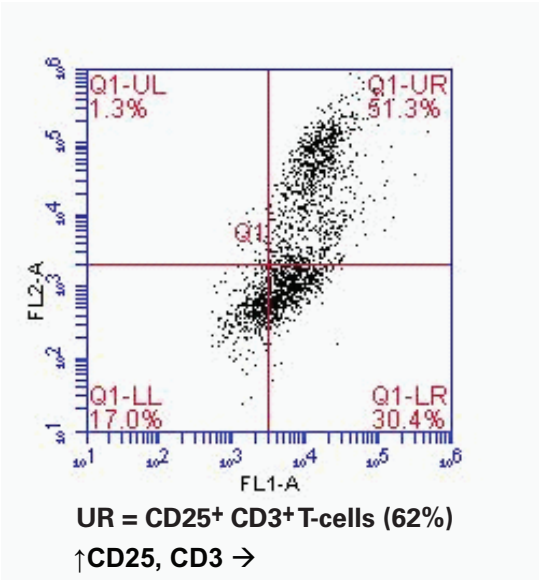
Overview and Properties

Contents:	This vial contains 100 µg of affinity-purified, PE labeled monoclonal antibody.
Synonyms:	Cluster of Differentiation 25, IL-2Rα, ILR2A, Interleukin-2 Receptor Subunit α, p55, Tac
Species Reactivity:	(+) Human CD25
Uniprot No.:	P01589
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥2 years
Storage Buffer:	TBS, pH 7.4, with 50% glycerol, 5 mg/ml BSA, and 0.02% sodium azide
Clone:	143-13
Host:	Mouse
Isotype:	IgG1
Applications:	Flow cytometry (5-10 µl per test), frozen tissue sections, and immunofluorescence; assay dependent dilution. Does not work for Western blotting.

Images



LR = CD3⁺ leukocytes (75-80%)



UR = CD25⁺ CD3⁺ T-cells (62%)

↑CD25, CD3 →

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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Description

CD25, also known as interleukin-2 receptor α (IL-2Rα), is a transmembrane glycoprotein.[1] It is composed of two domains, D1 and D2, and associates with the CD122/IL-2β and CD132/IL-2γc subunits to form the heterotrimeric IL-2 receptor. CD25 is expressed in activated T and B cells, regulatory T cells, and lymphokine-activated killer (LAK) cells.[2-4] Activation of IL-2R on T cells increases the expression of CD25 and leads to T cell proliferation and differentiation, as well as activation-induced T cell death.[3,4] *ILR2A* expression and CD25 protein levels in bone marrow are increased in patients with acute myeloid leukemia (AML) and associated with poor prognosis.[3] SNPs in *ILR2A* and elevated serum levels of a soluble form of CD25 are associated with an increased risk of Graves' disease.[5] Cayman's CD25/Interleukin-2Rα Monoclonal Antibody (PE) (Clone 143-13) is composed of a CD25 monoclonal antibody conjugated to phycoerythrin (PE) and can be used for flow cytometry (FC), immunocytochemistry (ICC), and immunohistochemistry (IHC) applications.

References

1. Stauber, D.J., Debler, E.W., Horton, P.A., *et al.* Crystal structure of the IL-2 signaling complex: Paradigm for a heterotrimeric cytokine receptor. *Proc. Natl. Acad. Sci. USA* **103(8)**, 2788-2793 (2006).
2. Volkó, J., Kenesei, Á., Zhang, M., *et al.* IL-2 receptors preassemble and signal in the ER/Golgi causing resistance to antiproliferative anti-IL-2Rα therapies. *Proc. Natl. Acad. Sci. USA* **116(42)**, 21120-21130 (2019).
3. Li, J., Ran, Q., Xu, B., *et al.* Role of CD25 expression on prognosis of acute myeloid leukemia: A literature review and meta-analysis. *PLoS One* **15(7)**, e0236124 (2020).
4. Waldmann, T.A. The IL-2/IL-2 receptor system: A target for rational immune intervention. *Immunol. Today* **14(6)**, 264-269 (1993).
5. Lee, H.J., Li, C.W., Hammerstad, S.S., *et al.* Immunogenetics of autoimmune thyroid diseases: A comprehensive review. *J. Autoimmun.* **64**, 82-90 (2015).

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