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InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618
Email: info@innocyto.com
Phone: 1-949-418-7543

Anti-Human CD25 (IL-2Rα) Antibody

Catalog Number:	110801, 110802
Size:	100 ug, 500 ug
Target Name:	CD25, IL-2R α chain, Low affinity IL-2R
Regulatory Status:	RUO

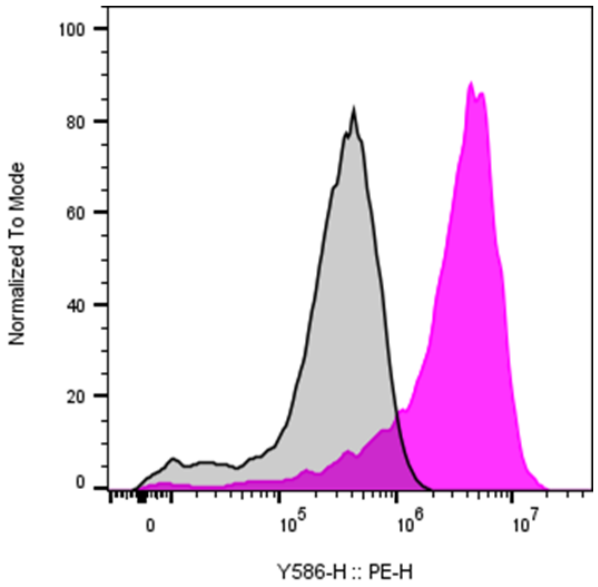
PRODUCT DETAILS

Clone:	BC96
Application:	Flow Cytometry
Reactivity:	Human, Chimpanzee, Rhesus, Pig-tailed macaque, Baboon
Format:	Purified
Isotype:	Mouse IgG1
Antibody Type:	Monoclonal
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Protein Concentration:	0.5 mg/mL
Storage&Handling:	The antibody solution should be stored between 2°C and 8°C
Recommended Usage:	For flow cytometric staining, it is recommended to use less than 0.2 µg of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.
Isotype Control:	301401
RRID:	AB_3738952
GeneID:	3559

BACKGROUND INFORMATION

CD25 is a 55 kDa type I transmembrane glycoprotein and the alpha chain of the high-affinity interleukin-2 receptor (IL-2R). It is expressed on activated T and B cells, progenitor lymphocytes, activated monocytes/macrophages, and a subset of non-stimulated $CD4^+$ regulatory T cells (Tregs). CD25 associates with the IL-2 receptor β (CD122) and common γ (CD132) chains to form the functional high-affinity IL-2R complex. Functionally, CD25 is critical for T cell activation, proliferation, and immune regulation. Deficiency of CD25 in mice causes severe autoimmunity and lethal lymphoproliferative disorders, mirroring defects seen in FOXP3 deficiency. In humans, genetic studies and case-control analyses have linked CD25 to autoimmune diseases such as Graves' disease, often accompanied by elevated soluble IL-2Rα (sIL-2Rα). Its role in immune regulation also makes it a target in certain cancer immunotherapies.

PRODUCT DATA



Anti-human CD3 and Anti-human CD28 stimulated Human peripheral blood lymphocytes were stained with either purified Anti-Human CD25 Clone BC96 (color-filled histogram) or an isotype control (gray histogram), followed by PE Anti-Mouse IgG1.

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