

TECHNICAL DATA SHEET

CyFlow™ CD25 APC **Anti-Ms; Clone PC61.5**

REF **BV354815**

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD25
Alternative Names	TAC, p55, IL-2R
Clone	PC61.5
Clonality	monoclonal
Format	APC
Host / Isotype	Rat / IgG1
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.5 mg/ml]
Immunogen	B6.1 CTL cell line

Specificity

The rat monoclonal antibody PC61.5 (PC61.5.3) recognizes mouse CD25 antigen, a 55 kDa type I transmembrane glycoprotein expressed on activated B and T lymphocytes, activated

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monocytes/macrophages and on CD4⁺ T lymphocytes (T regulatory cells); it is lost on resting B and T lymphocytes.

Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD25 (IL2R α , Tac) is a ligand-binding α subunit of interleukin 2 receptor (IL2R). Together with β and γ subunit CD25 constitutes the high affinity IL2R, whereas CD25 alone serves as the low affinity IL2R. CD25 expression rapidly increases upon T cell activation. The 55 kDa CD25 molecule is enzymatically cleaved and shed from the cell surface as a soluble 45 kDa s-Tac, whose concentration in serum can be used as a marker of T cell activation. Expression of CD25 indicates the neoplastic phenotype of mast cells. CD25⁺ CD4⁺ FoxP3⁺ regulatory cells (Treg cells) play a crucial role in the control of organ-specific autoimmune diseases.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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