

TECHNICAL DATA SHEET

CyFlow™ CD25 Purified Anti-Ms; Clone PC61.5

REF CN509036

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	Purified
Host / Isotype	Rat / IgG1
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 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

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry (frozen sections)
- Functional assays

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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