

1A-614-C025

Monoclonal Antibody to CD25 (mouse) Allophycocyanin (APC) conjugated (0.025 mg)

Clone: PC61.5
Isotype: Rat IqG1

Specificity: The rat monoclonal antibody PC61.5 (PC61.5.3) recognizes CD25 (Interleukin-2

receptor alpha chain), a 55 kDa type I transmembrane glycoprotein expressed on activated B and T lymphocytes, activated monocytes/macrophages and on $\mathrm{CD4}^+\,\mathrm{T}$

lymphocytes (T regulatory cells); it is lost on resting B and T lymphocytes.

Regulatory Status: RUO

Immunogen: B6.1 CTL cell line

Species Reactivity: Mouse

Preparation: The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under

optimum conditions. The conjugate is purified by size-exclusion chromatography.

Concentration: 0.5 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis.

Expiration: See vial label

Lot Number: See vial label

Background: CD25 (IL2Ralpha, Tac) is a ligand-binding alpha subunit of interleukin 2 receptor

(IL2R). Together with beta and gamma subunit CD25 constitues 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.



PRODUCT DATA SHEET

References:

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