TECHNICAL DATA SHEET

CyFlow™ CD27 PE-Cy5
Anti-Hu; Clone LT27

REF **BT523235**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD27
Alternative Names	T14, S152, TP55, TNFRSF7
Clone	LT27
Clonality	monoclonal
Format	PE-Cy5
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human peripheral blood lymphocytes

Specificity

The mouse monoclonal antibody LT27 recognizes CD27 antigen, a 50-55 kDa type I transmembrane glycoprotein (member of the TNF-receptor superfamily) expressed on medullary thymocytes, peripheral T lymphocytes, some B lymphocytes and NK cells.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈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

CD27 is a transmembrane 55 kDa protein of the nerve growth factor-receptor family, expressed as a disulfide-linked homodimer on mature thymocytes, peripheral blood T cells and a subpopulation of B cells. Activation of T cells via TCR-CD3 complex results in upregulation of CD27 expression on the plasma membrane as well as in the release of its soluble 28-32 kDa form, sCD27, detected in the plasma, urine or spinal fluid. This sCD27 is an important prognostic marker of acute and chronic B cell malignancies. RgpA, a cystein proteinase, although activating T cells through the protease-activated receptors (PARs), degradates CD27 and counteracts T cell activation mediated by CD27 and its ligand CD70.

References

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soluble molecules belonging to nerve growth factor receptors (NGFr) superfamily. Haematologica. 1998 May; 83(5):398-402l. < PMID: 9658722 >

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

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