

TECHNICAL DATA SHEET

CyFlow™ CD27 FITC Anti-Hu; Clone LT27

REF CX797520



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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	FITC
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human peripheral blood lymphocytes

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



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.

HLDA V—WS Code T T-CD27.01

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20- μ l reagent-/ 100- μ l of whole blood or 10^6 cells in a suspension. The content of a vial (2 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 \approx 7.4, containing 0.09% (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 cysteine proteinase, although activating T cells through the protease-activated receptors (PARs), degrades CD27 and counteracts T cell activation mediated by CD27 and its ligand CD70.

Warnings

Non-Hazardous Statement: This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.










Safety Data Sheet Statement: Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet.

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

References

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- Molica S, Vitelli G, Levato D, Crispino G, Dell'Olio M, Dattilo A, Matera R, Gandolfo GM, Musto P: CD27 in B-cell chronic lymphocytic leukemia: Cellular expression, serum release and correlation with other soluble molecules belonging to nerve growth factor receptors (NGFr) superfamily. Haematologica. 1998 May; 83(5):398-402l. < PMID: 9658722 >
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- Yun LW, Decarlo AA, Hunter N: Blockade of protease-activated receptors on T cells correlates with altered proteolysis of CD27 by gingipains of Porphyromonas gingivalis. Clin Exp Immunol. 2007 Nov; 150(2):217-29. < PMID: 17937677 >
- Kanderova V, Kuzilkova D, Stuchly J, Vaskova M, Brdicka T, Fiser K, Hrusak O, Lund - Johansen F, Kalina T: High - resolution antibody array analysis of childhood acute leukemia cells. Mol Cell Proteomics. 2016 Apr 1; 15(4):1246 - 61. < PMID: 26785729 >

Symbols

	Reagent catalogue number		Contains sufficient for <n> tests
	For Research Use Only. Not for use in diagnostic and therapeutic procedures.		Temperature limitation
	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use by		

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