

## TECHNICAL DATA SHEET

### CyFlow™ CD27 Purified Anti-Hu; Clone LT27

**REF** CY176848

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

### Specifications

|                                    |                                    |
|------------------------------------|------------------------------------|
| <b>Antigen</b>                     | CD27                               |
| <b>Alternative Names</b>           | T14, S152, TP55, TNFRSF7           |
| <b>Clone</b>                       | LT27                               |
| <b>Clonality</b>                   | monoclonal                         |
| <b>Format</b>                      | Purified                           |
| <b>Host / Isotype</b>              | Mouse / IgG2a                      |
| <b>Species Reactivity</b>          | Human                              |
| <b>Negative Species Reactivity</b> | —                                  |
| <b>Quantity [Concentration]</b>    | 0.1 mg [ 1 mg/ml ]                 |
| <b>Immunogen</b>                   | 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.

#### Contact Information:

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## Application

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

- Flow cytometry

## 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

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

## References

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- Doussis IA, Gatter KC, Mason DY: CD68 reactivity of non-macrophage derived tumours in cytological specimens. J Clin Pathol. 1993 Apr; 46(4):334-6. < PMID: 7684403 >
- 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):398-402. < PMID: 9658722 >

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- Kara IO, Sahin B, Gunesacar R: Expression of soluble CD27 and interleukins-8 and -10 in B-cell chronic lymphocytic leukemia: correlation with disease stage and prognosis. Adv Ther. 2007 Jan-Feb; 24(1):29-40. < PMID: 17526459 >
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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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