

## TECHNICAL DATA SHEET

### CyFlow™ CD101 PE Anti-Hu; Clone BB27

**REF** AA570768

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

### Specifications

<b>Antigen</b>	CD101
<b>Alternative Names</b>	V7, P126
<b>Clone</b>	BB27
<b>Clonality</b>	monoclonal
<b>Format</b>	PE
<b>Host / Isotype</b>	Mouse / IgG1
<b>Species Reactivity</b>	Human
<b>Negative Species Reactivity</b>	—
<b>Quantity</b>	100 tests
<b>Immunogen</b>	Human thymic clone B12

### Specificity

The mouse monoclonal antibody BB27 recognizes CD101 antigen, a 140 kDa disulfide-bonded homodimeric protein expressed on activated T cells, and other cell types such as granulocytes and cells of the monocyte/macrophage lineage.

#### Contact Information:

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## Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 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

<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

CD101 is a type I transmembrane glycoprotein, which forms disulfide-linked homodimers. It is expressed on activated T cells, as well as on granulocytes, monocytes, dendritic cells or mucosal T cells. It plays a major role in the activation of T cells by skin dendritic cells. Function of CD101 has not been fully elucidated, but in mice its knock-out results in liver autoimmune disease induced by *Novosphingobium aromaticivorans*.

## References

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- Bagot M, Martinel I, Charue D, Weill F, Boulland ML, Wechsler J, Freeman GJ, Bensussan A, Boumsell L: CD101 is expressed by skin dendritic cells: Role in T-lymphocyte activation. Tissue Antigens. 1997 Nov; 50(5):439-48. < PMID: 9389317 >
- Grassi F, Dezutter-Dambuyant C, McIlroy D, Jacquet C, Yoneda K, Imamura S, Boumsell L, Schmitt D, Autran B, Debré P, Hosmalin A: Monocyte-derived dendritic cells have a phenotype comparable to

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that of dermal dendritic cells and display ultrastructural granules distinct from Birbeck granules.  
J Leukoc Biol. 1998 Oct; 64(4):484-93. < PMID: 9766629 >

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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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