



1P-778-T100

## Monoclonal Antibody to CD101 Phycoerythrin (PE) conjugated (100 tests)

<b>Clone:</b>	BB27
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody BB27 recognizes CD101, a 140 kDa disulfide-bonded homodimeric protein expressed on activated T cells, and some other cell types, such as granulocytes and cells of the monocyte/macrophage lineage. HLDA V; WS Code T040
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human thymic clone B12
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	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.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 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.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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 <i>Novosphingobium aromaticivorans</i> .
<b>References:</b>	*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995). 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. <i>Tissue Antigens</i> . 1997 Nov;50(5):439-48. *Bagot M, Martinel I, Charue D, Boulland ML, Wechsler J, Bensussan A, Boumsell L: Functional role of CD101 on skin dendritic cells. <i>Adv Exp Med Biol</i> . 1997;417:227-32. *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 that of dermal dendritic cells and display ultrastructural granules distinct from Birbeck granules. <i>J Leukoc Biol</i> . 1998 Oct;64(4):484-93.

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