

anti-human CD101

Monoclonal antibody BB27 to human CD101

Cat-No: 21271011

100 µg in 100 µl

Clone: BB27

Specificity: 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

Isotype subclass: Mouse IgG1

Form: Purified by protein A-affinity chromatography

Purity: > 95% (by SDS-PAGE)

Physical state: liquid

Buffer/Additives/Preservative: PBS containing 0.09 % sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 2 °C - 8 °C. Do not freeze.

Application: Flow Cytometry, Immunohistochemistry (f), Immunoprecipitation, Western Blotting

Background: 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:

- *) 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. *Tissue Antigens*. 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. *Adv Exp Med Biol*. 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. *J Leukoc Biol*. 1998 Oct;64(4):484-93.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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