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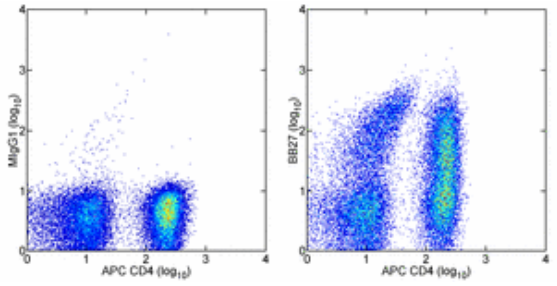
# Anti-Human CD101 Purified

Catalog Number: 14-1019
Also Known As:V7 antigen, IGSF 2, IGSF-2
RUO: For Research Use Only




Staining of normal human peripheral blood cells with 0.5 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (left) or 0.5 µg of Anti-Human CD101 Purified (right) followed by F(ab')2 Anti-Mouse IgG PE (cat. 12-4012) and subsequently with Anti-Human CD4 APC (cat. 17-0048). Cells in the lymphocyte gate were used for analysis.

## Product Information

Contents: Anti-Human CD101 Purified
REF Catalog Number: 14-1019
Clone: BB27
Concentration: 0.5 mg/ml
Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

## Description

The monoclonal antibody BB27 reacts to human CD101 also known as V7 antigen, a member of the Ig superfamily. CD101 is a disulfide linked homodimer of unknown function. Expression of CD101 is found on monocytes, granulocytes and dendritic cells (Langerhan-like cells HLA-DR, CD1a, CD1c). In addition expression on T lymphocytes is important for cell activation. CD101+ CD28+ cells are very responsive to CD28 signaling. In combination with anti-CD28 or suboptimal levels of anti-CD3, anti-CD101 can increase proliferation thereby suggesting an activating role. The monoclonal antibody BB27 has been shown to inhibit the T cell reactivity in allogeneic and antigen-specific mixed DC-T cell cultures. Recently it has been demonstrated that mouse CD101 is found on a subpopulation of regulatory T cells (CD4, CD25, Foxp3 positive) that have high suppressor activity. Expression of CD101 on human PBMCs shows staining of about 30% of the Foxp3 positive cells. Studies have not confirmed higher suppressor activity in the human CD101 population.

## Applications Reported

This BB27 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining(frozen tissue).

## Applications Tested

This BB27 antibody has been tested by flow cytometric analysis of human peripheral blood cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from $10^5$ to $10^8$ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## References

Gouttefangeas C, Jacquot S, Meffre E, Schmid M, Boumsell L, Bensussan A. Differential proliferative responses in subsets of human CD28+ cells delineated by BB27 mAb. Int Immunol. 1994 Mar;6(3):423-30. (BB27, FC, PubMed)

Bouloc A, Bagot M, Delaire S, Bensussan A, Boumsell L. Triggering CD101 molecule on human cutaneous dendritic cells inhibits T cell proliferation via IL-10 production. Eur J Immunol. 2000 Nov;30(11):3132-9. (BB27, FA, PubMed)

Bouloc A, Boulland ML, Geissmann F, Fraitag S, Andry P, Teillac D, Bensussan A, Revuz J, Boumsell L, Wechsler J, Bagot M. CD101 expression by Langerhans cell histiocytosis cells. Histopathology. 2000 Mar;36(3):229-32. {BB27, Ihf, PubMed)

## Related Products

11-4011 Anti-Mouse IgG FITC
11-4317 Streptavidin FITC
12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4714 Mouse IgG1 K Isotype Control Purified
17-4317 Streptavidin APC

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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com