

Anti-Mouse CD49b-164Dy

Catalog #: 3164011B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Cross Reactivity: Mouse

Clone: HMa2

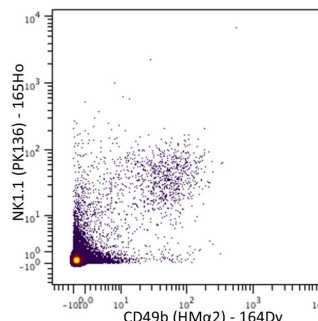
Isotype: Hamster IgG

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Mouse splenocytes stained with 165Ho-anti-NK1.1 (PK136) and 164Dy-anti-CD49b (HMa2).

Description

CD49b, also known as integrin $\alpha 2$, is a 150 kDa subunit that binds non-covalently with integrin $\beta 1$ (CD29) to form the receptor VLA-2. VLA-2 is a receptor for collagen and laminin. VLA-2 is expressed by some CD4⁺ T cells, intra-epithelial lymphocytes (IEL), NK cells, platelets and epithelial cells. Evidence suggests that the collagen-binding VLA-2 can be a major regulator of T cell activation. It has recently been shown that co-expression of CD49b and LAG-3 identifies human and mouse T regulatory type 1 cells.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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