

## Anti-Mouse CD49b-170Er

**Catalog #:** 3170008B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** HMα2

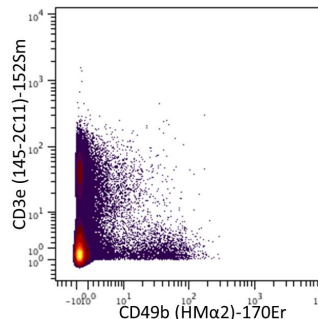
**Isotype:** Hamster IgG

**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 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



C57BL/6 mouse splenocytes stained with 152Sm-anti-CD3e (145-2C11) and 170Er-anti-CD49b (HMα2).

### Description

CD49b, also known as integrin α2, is a 150 kDa subunit that binds non-covalently with integrin β1 (CD29) to form the receptor VLA-2. VLA-2 is a receptor for collagen and laminin. VLA-2 is expressed by some CD4<sup>+</sup> 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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