

TECHNICAL DATA SHEET

# Biotin Anti-Mouse CD49b (HMa2)

Catalog Number: 30-0491

## PRODUCT INFORMATION

**Contents:** Biotin Anti-Mouse CD49b (HMa2)

**Isotype:** Armenian Hamster IgG

**Concentration:** 0.5 mg/mL

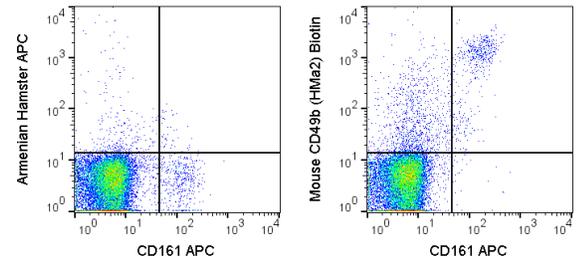
**Clone:** HMa2

**Reactivity:** Mouse

**Use By:** 12 months from date of receipt

**Storage Conditions:** 2-8°C

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, pH 7.2



C57Bl/6 splenocytes were stained with APC Anti-Mouse NK1.1 (CD161) (20-5941) and 0.03 ug Biotin Anti-Mouse CD49b (30-0491) (right panel) or 0.03 ug Biotin Armenian Hamster IgG isotype control (left panel) followed by Streptavidin PE.

## DESCRIPTION

The HMa2 antibody reacts with mouse CD49b, a 150 kDa glycoprotein member of the integrin family. CD49b, also known as integrin alpha2, associates non-covalently with CD29 (integrin beta1) to form the VLA-2 heterodimer. VLA-2 integrins function as cellular receptors for collagen and laminin. CD49b is expressed by platelets, intestinal epithelial cells, NK cells, epithelial cells, and a subset of CD4<sup>+</sup> T cells. CD49b plays an essential role in mediating the adhesion of cells to the extracellular matrix.

## PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

## APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

## REFERENCES

Miyake S, Sakurai T, Okumura K, Yagita H. 1994. Eur J Immunol. Sep 24;24(9):2000-2005. Noto K, Kato K, Okumura K, Yagita H. 1995. Int Immunol. May;7(5):835-842. Arase H, Saito T, Phillips JH, Lanier LL. 2001. J Immunol. Aug 1;167(3):1141-1144. Zhang Z, Ramirez NE, Yankeelov TE, Li Z, Ford LE, Qi Y, Pozzi A, Zutter MM. 2008. Blood. 111:1980-1988.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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