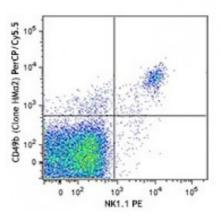
## **Product Data Sheet**

## PerCP/Cyanine5.5 anti-mouse CD49b

Catalog # / Size:	1117600 / 100 μg 1117595 / 25 μg
Clone:	ΗΜα2
Isotype:	Hamster IgG
Immunogen:	Mouse colon carcinoma cell line Colon26
<b>Reactivity:</b>	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cyanine5.5 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Concentration:</b>	0.2



C57BL/6 splenocytes were stained with NK1.1 PE and CD49b (clone HM $\alpha$ 2) PerCP/Cy5.5 (top), or Armenian Hamster IgG PerCP/Cy5.5 isotype control (bottom).

3-0-1



Applications:	Flow Cytometry	
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.06 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum	
	emission of 690 nm.	
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation1, immunofluorescence on frozen sections4, and blocking of cell adhesion <sup>1-3</sup> . The LEAF <sup>™</sup> purified antibody (Endotoxin <0.1 EU/µg, Azide- Free, 0.2 µm filtered) is recommended for functional assays.	
Application References:	, , , , ,	

**Description:** CD49b is a 150 kD glycoprotein, also known as  $\alpha_2$  integrin, VLA-2  $\alpha$  chain, Integrin  $\alpha_2$  chain, and HM $\alpha$ 2. It is a member of the integrin family, expressed on NK cells,

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com a subset of splenic CD4<sup>+</sup> T cells, NK-T cells, intestinal intraepithelial and lamina propria lymphocytes, epithelial cells, and platelets. By associating with CD29 (integrin  $\beta_1$  subunit), CD49b forms the VLA-2 (integrin  $\alpha_2\beta_1$ ) complex. It plays a critical role in both adhesion and lymphocyte activation. The primary ligands for CD49b are collagen, laminin, and fibronectin. The HM $\alpha_2$  antibody has been shown to be useful for partially blocking CD49b mediated interactions with collagen. Additionally, this antibody blocks staining of splenic NK cells by the monoclonal antibody DX5.

Antigen	1. Barclay AN, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press.
<b>References:</b>	2. Sasaki K, <i>et al.</i> 2003. Int. Immunol. 15:701.
	3 Inouro O at al 2003 1 Call Biol 160.760

3. Inoue O, *et al.* 2003. *J. Cell Biol.* 160:769.

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