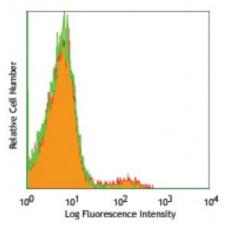
## **Product Data Sheet**

## Purified anti-mouse CD49b (pan-NK cells)

Catalog # / Size:	1144505 / 50 μg 1144510 / 500 μg
Clone:	DX5
Isotype:	Rat IgM, к
Immunogen:	IL-2-propagated NK1.1+ cells from C57BL/6 mice
<b>Reactivity:</b>	Mouse
<b>Preparation:</b>	This antibody is at >85% purity.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



C57BL/6 mouse splenocytes stained with DX5 purified, followed by antirat IgG FITC

## **Applications:**

Applications:	Flow Cytometry, Immunohistochemistry
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 $\leq 0.25$ microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	The DX5 clone detects cells expressing relatively high levels of CD49b and may not be useful for the detection of cells expressing low levels of CD49b. DX5 does not block NK cell killing or binding to collagen <i>in vitro</i> . Additional reported applications (for the relevant formats) include: complement-mediated cytotoxicity2 and immunohistochemical staining5 of formalin-fixed and paraffin- embedded tissue sections as well as immunohistochemical staining of acetone- fixed frozen sections <sup>10</sup> . The binding of DX5 antibody to splenic NK cells can be blocked by HM $\alpha$ 2 antibody.
Application References:	<ol> <li>Arase H, <i>et al.</i> 2001. <i>J. Immunol.</i> 167:1141. (FC)</li> <li>Sepulveda H, <i>et al.</i> 1999. <i>J. Immunol.</i> 163:1133.</li> <li>Norian LA and Allen PM. 2004. <i>J. Immunol.</i> 173:835. (FC)</li> <li>Andoniou CE, <i>et al.</i> 2005. <i>Nature Immunology</i> 6:1011.</li> <li>Oertelt S, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:1655. (IHC) <u>PubMed</u></li> <li>Bourdeau A, <i>et al.</i> 2007. <i>Blood</i> doi:10.1182/blood-2006-08-044370.</li> <li>Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) <u>PubMed</u></li> <li>Qui Q, <i>et al.</i> 2010. <i>J. Immunol.</i> 184:1681. (FC) <u>PubMed</u></li> <li>Busche A, <i>et al.</i> 2011. <i>J. Immunol.</i> 186:2918. <u>PubMed</u></li> <li>Kim HR, <i>et al.</i> 2011. <i>Vaccine.</i> 29:8002. <u>PubMed</u></li> <li>Seyoum B, <i>et al.</i> 2012. <i>Int Immunopharmacol.</i> 13:245. <u>PubMed</u></li> <li>Honjo K, <i>et al.</i> 2013. <i>Biomaterials.</i> 34:10151. <u>PubMed</u></li> </ol>

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 covalently associates with CD29 ( $\beta_1$  integrin) to form the CD49b/CD29 complex known as VLA-2, a receptor for collagen and laminin. CD49b is expressed on platelets, the majority of NK cells, NKT cells, and a small subset of CD8+ T cells (this population can be significantly increased following viral infection). DX5 is used for the identification and isolation of NK cells, and is especially useful for identifying NK cells in mice lacking the NK1.1 antigen.

Antigen
1. Arase H, *et al.* 2001. *J. Immunol.* 167:1141.
2. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
3. Sasaki K, *et al.* 2003. *Int. Immunol.* 15:701.

4. Inoue O, et