

## PE/Cyanine7 Anti-Mouse CD49b/pan-NK cells Antibody[DX5]

Catalog Number: E-AB-F1116H

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

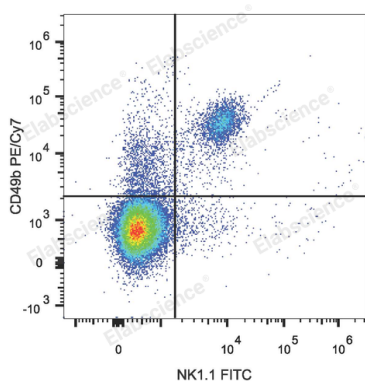
<b>Reactivity</b>	Mouse
<b>Host</b>	Rat
<b>Isotype</b>	Rat IgM, κ
<b>Clone No.</b>	DX5
<b>Isotype Control</b>	[Product E-AB-F09772H]
<b>Conjugation</b>	PE/Cyanine 7
<b>Conjugation Information</b>	PE/Cyanine7 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 775 nm (e.g., a 780/60 nm bandpass filter).
<b>Storage Buffer</b>	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications

### Recommended usage

<b>FCM</b>	Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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### Data



C57BL/6 murine splenocytes are stained with PE/Cyanine7 Anti-Mouse CD49b Antibody and FITC Anti-Mouse CD161/NK1.1 Antibody.

### Preparation & Storage

<b>Storage</b>	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze.
<b>Shipping</b>	Ice bag

### Antigen Information

<b>Alternate Names</b>	CD49 antigen-like family member B;CD49b;Collagen receptor;GPIa;Integrin alpha-2; Platelet membrane glycoprotein Ia;VLA-2 subunit alpha;pan-NK cells
<b>Uniprot ID</b>	Q62469
<b>Gene ID</b>	16398

### For Research Use Only

## Background

DX5 antigen has been recently characterized as CD49b. It is a 150 kD integrin  $\alpha$  chain also known as  $\alpha 2$  integrin, VLA-2  $\alpha$  chain, and integrin  $\alpha 2$  chain. CD49b non-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.