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

Catalog Number: E-AB-F1116UH

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

#### Description

ReactivityMouseHostRatIsotypeRat IgM, κClone No.DX5

**Isotype Control** [Product E-AB-F09773H]

Conjugation PE/Cyanine 7

Conjugation Information 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).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

#### Applications Recommended usage

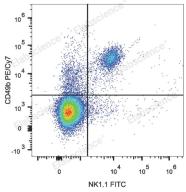
**FCM** Each lot of this antibody is quality control tested by flow cytometric analysis. Please

check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the

reagent to obtain optimal results [The recommended concentration is 0.1-1  $\mu g/10^6$  cells

in 100 µL volume].

## <u>Data</u>



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

#### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8  $^{\circ}\text{C}$  for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

#### **Antigen Information**

Alternate Names CD49 antigen-like family member B;CD49b;Collagen receptor;GPla;Integrin alpha-2;

Platelet membrane glycoprotein la;VLA-2 subunit alpha;pan-NK cells

 Uniprot ID
 Q62469

 Gene ID
 16398

# For Research Use Only

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## **Elabscience Bionovation Inc.**



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## **Background**

DX5 antigen has been recently characterized as CD49b. It is a 150 kD integrin α chain also known as α2 integrin, VLA-2 α chain, and integrin α2 chain. CD49b non-covalently associates with CD29 (β1 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.

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