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# Elab Fluor® 488 Anti-Mouse CD49b/pan-NK cells Antibody[DX5]

Catalog Number: E-AB-F1116L

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

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<b>Descri</b>	ntion
DESCII	

ReactivityMouseHostRatIsotypeRat IgM, κClone No.DX5

Isotype Control Elab Fluor® 488 Rat IgM, κ Isotype Control[RTK2118] [Product E-AB-F09772L]

Conjugation Elab Fluor® 488

Conjugation Information Elab Fluor® 488 is designed to be excited by the Blue laser (488 nm) and detected using

an optical filter centered near 520 nm (e.g., a 525/40 nm bandpass filter).

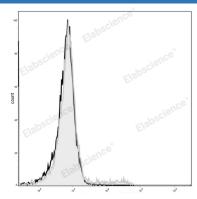
Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications Recommended usage

**FCM** 

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

#### Data



C57BL/6 murine bone marrow cells are stained with Elab

Fluor® 488 Anti-Mouse CD49b Antibody (filled gray histogram). Unstained bone marrow cells (empty black histogram) are used as control.

#### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°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**

Elabscience®

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.

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