

A Reliable Research Partner in Life Science and Medicine

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

Catalog Number: E-AB-F1116UL

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

#### **Description**

Reactivity Mouse Rat Host Isotype Rat IgM, ĸ DX5 Clone No.

Isotype Control Elab Fluor® 488 Rat IgM, κ Isotype Control[RTK2118] [Product E-AB-F09773L]

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).

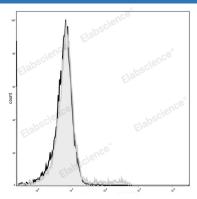
Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. Storage Buffer

#### **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].

#### 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**

Keep as concentrated solution. **Storage** 

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 16398 Gene ID

## For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email:techsupport@elabscience.com

Web:www.elabscience.com

#### **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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