

## Elab Fluor® 700 Anti-Mouse CD49b/pan-NK cells Antibody[DX5]

Catalog Number: GFH1116UM1

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

### Description

|                         |                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                  |
| Host                    | Rat                                                                                                                                                                    |
| Isotype                 | Rat IgM, κ                                                                                                                                                             |
| Clone No.               | DX5                                                                                                                                                                    |
| Isotype Control         | Elab Fluor® 700 Rat IgM, κ Isotype Control[RTK2118] [Product E-AB-F09773M1]                                                                                            |
| Conjugation             | Elab Fluor® 700                                                                                                                                                        |
| Conjugation Information | Elab Fluor® 700 is designed to be excited by the Red laser (627-640 nm) and detected using an optical filter centered near 719 nm (e.g., a 725/40 nm bandpass filter). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                    |

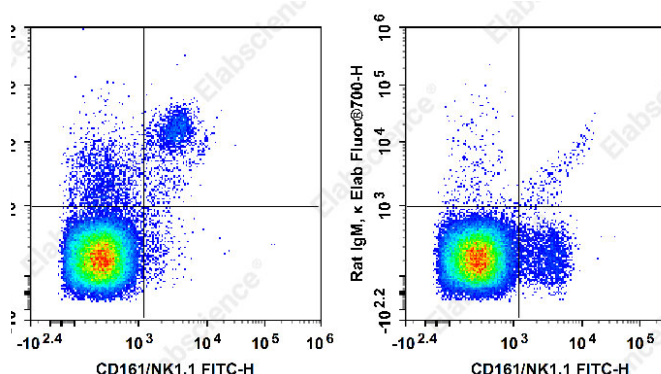
### Applications

### 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 µg/10<sup>6</sup> cells in 100 µL volume].

### Data



Staining of C57BL/6 murine splenocytes with FITC Anti-

Mouse CD161/NK1.1 Antibody[PK136] and Elab Fluor® 700 Anti-Mouse CD49b/pan-NK cells Antibody[DX5](left) or Elab

Fluor® 700 Rat IgM, κ Isotype Control(right). Total viable cells were used for analysis.

### Preparation & Storage

|          |                                                                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage  | Keep as concentrated solution.<br>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;GPIa;Integrin alpha-2; Platelet membrane glycoprotein Ia;VLA-2 subunit alpha;pan-NK cells |
| Uniprot ID      | Q62469                                                                                                                                              |

### For Research Use Only

**Gene ID**

16398

**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.