

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

**Catalog Number:** GFH1116UD

**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, $\kappa$                                                                                                                                                                                 |
| <b>Clone No.</b>               | DX5                                                                                                                                                                                               |
| <b>Isotype Control</b>         | PE Rat IgM, $\kappa$ Isotype Control[RTK2118] [Product E-AB-F09773D]                                                                                                                              |
| <b>Conjugation</b>             | PE                                                                                                                                                                                                |
| <b>Conjugation Information</b> | PE 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 575 nm (e.g., a 585/42 nm bandpass filter). |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                               |

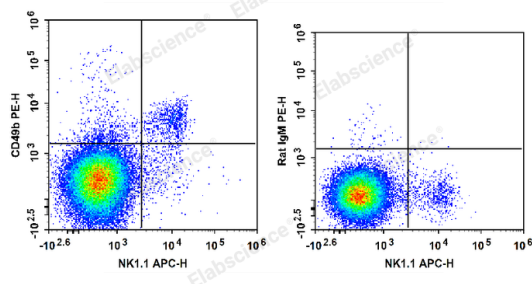
### Applications

### 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  $\mu\text{g}/10^6$  cells in 100  $\mu\text{L}$  volume].

### Data



C57BL/6 murine splenocytes are stained with APC Anti-Mouse CD161/NK1.1 Antibody and PE Anti-Mouse CD49b Antibody (Left). Splenocytes are stained with APC Anti-Mouse CD161/NK1.1 Antibody and PE Rat IgM,  $\kappa$  Isotype Control (Right).

### Preparation & Storage

|                 |                                                                                                                                                           |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | 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. |
| <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 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

### 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.