

## Elab Bright Violet 421 Anti-Mouse CD49b Antibody[DX5]

Catalog Number: E-AB-F1116Q2

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

### Description

Reactivity	Mouse
Host	Rat
Isotype	Rat IgM, $\kappa$
Clone No.	DX5
Isotype Control	[Product E-AB-F09772Q2]
Conjugation	Elab Bright Violet 421
Conjugation Information	Elab Bright Violet 421 is designed to be excited by the violet laser (405 nm) and detected using an optical filter centered near 421 nm (e.g., a 450/50 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA.

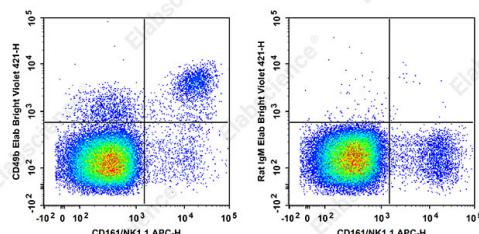
### Applications

### 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



Staining of C57BL/6 murine splenocytes cells with Elab Bright Violet 421 Anti-Mouse CD49b/pan-NK cells Antibody[DX5] and APC Anti-Mouse CD161/NK1.1 Antibody[PK136](left) or Elab Bright Violet 421 Rat IgM,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

### 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	$\alpha 2$ integrin;VLA-2 $\alpha$ chain;DX5;Integrin $\alpha 2$ chain;ITGA2
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.