

**Manufacturer/Supplier:**

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**Product name:** Anti-Mouse CD49b Monoclonal Antibody(AF647  
Conjugated)

**Catalog:** DL21439F

**Synonyms:** Integrin alpha-2, CD49 antigen-like family member  
B, Collagen receptor, Platelet membrane glycoprotein  
Ia, GPIa, VLA-2 subunit alpha, CD49b

**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.

**Form:** Liquid

**Isotype:** Rat IgM

**Size:** 25µg/100µg

**Host:** Rat

**Reactivity:** Mouse

**Application:** FCM

**Concentration:** 0.5 mg/mL

**Conjugation:** AF647

**SwissProt:** Q62469

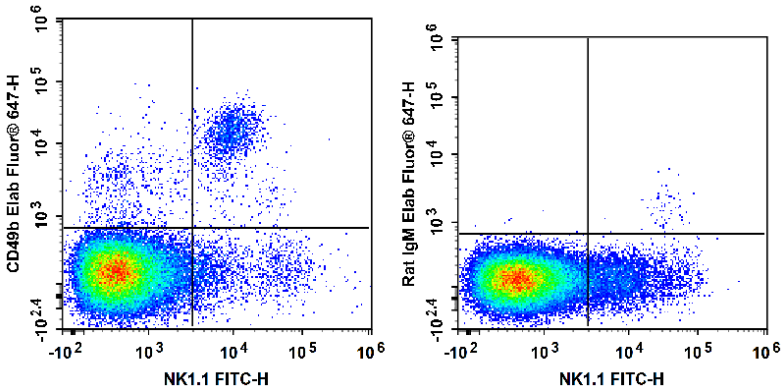
**Buffer:** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

### **Recommended Use:**

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:

C57BL/6 murine splenocytes are stained with Anti-Mouse CD49b Monoclonal Antibody(AF647 Conjugated)[Used at 0.2  $\mu\text{g}/10^6$  cells dilution](filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.



### Storage:

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.