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**Product name:** Anti-Mouse CD29 Monoclonal Antibody(Biotin  
Conjugated)

**Catalog:** DL20168F

**Synonyms:** Integrin beta-1, ITB1, Itgb1, Fibronectin receptor  
subunit beta, VLA-4 subunit beta, CD29

**Background:** The KMI6 antibody reacts with the 130-kDa integrin  $\beta 1$  chain (CD29). CD29 is expressed on the cell surface as a heterodimer with one of the distinct integrin  $\alpha$  chains. With  $\alpha 1$  through  $\alpha 6$  (CD49a through CD49f), it forms the VLA-1 through VLA-6 complexes, respectively, and with  $\alpha v$  (CD51), it forms  $\alpha v\beta 1$  integrin. It also associates with the integrin  $\alpha 7$ ,  $\alpha 8$ , and  $\alpha 9$  chains in non-lymphoid tissues. As a result, CD29 has a broad tissue distribution, including leukocytes, endothelia,

smooth muscle, epithelia, and oocytes. The epitope recognized by the KMI6 mAb can be detected by immunoblot in unreduced extracts from a variety of cells and tissues having a number of different  $\beta$ 1-integrin heterodimer combinations. However, the epitope is not well expressed on the surface of the majority of hematopoietic cells. It is detected on the surface of fetal liver cells, some bone marrow stromal cells, and some cultured hematopoietic cell lines, including P815 and PA6. Surface expression of the CD29 epitope recognized by mAb KMI6 on thymocytes and T lymphocytes appears to be developmentally regulated, and KMI6 antibody enhances the adhesion of KMI6 thymocytes to fibronectin and laminin.

**Form:** Liquid

**Isotype:** Rat IgG2a,  $\kappa$

**Size:** 50  $\mu$ g/100  $\mu$ g

**Host:** Rat

**Reactivity:** Mouse

**Application:** FCM

**Concentration:** 0.5 mg/mL

**Conjugation:** Biotin

**SwissProt:** P09055

**Buffer:** PBS with 0.05% Proclin300, 1% BSA

**Recommended Use:**

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is  $\leq 1.0 \mu\text{g}$  per  $10^6$  cells in  $100 \mu\text{L}$  volume or  $100 \mu\text{L}$  of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Storage:**

Keep as concentrated solution.

Store at  $2\sim 8^\circ\text{C}$  and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.