

PE/Cy7 anti-human CD29

Catalog # / Size: 2115130 / 100 tests
2115125 / 25 tests

Clone: TS2/16

Isotype: Mouse IgG1, κ

Reactivity: Human, Non-human primate

Concentration: Lot-specific

Applications:

Applications: Flow Cytometry

Recommended Usage: 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 5 μL per million cells or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation³, immunohistochemical staining of acetone-fixed frozen tissue sections^{3,5}, and activation of integrin β_1 ^{4,7,8}. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μg , Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 303010). Clone TS2/16 recognizes epitope A2¹⁰.

Description: CD29 is a 130 kD single chain type I glycoprotein also known as integrin β_1 , VLA- β chain, or gp11a. It is broadly expressed on a majority of hematopoietic and non-hematopoietic cells, including leukocytes (although at low level on granulocytes), platelets, fibroblasts, endothelial cells, epithelial cells, and mast cells. CD29 is a member of the integrin family. It is non-covalently associated with integrin $\alpha 1$ - $\alpha 6$ chains to form VLA-1 to VLA-6 molecules, respectively. Integrins, which include CD29, bind to several cell surface (e.g. VCAM-1, MadCAM-1) and extracellular matrix molecules. CD29 acts as a fibronectin receptor and is involved in a variety of cell-cell and cell-matrix interactions.