

PE/Cy5 anti-human CD29

Catalog # / Size: 303005 / 25 tests
303006 / 100 tests

Clone: TS2/16

Isotype: Mouse IgG1, κ

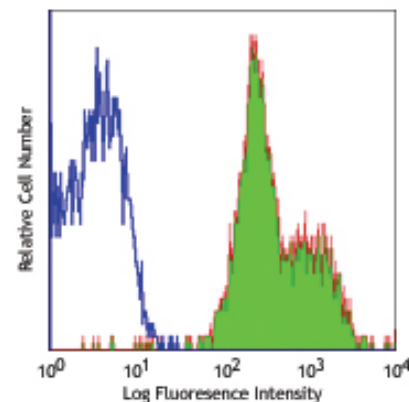
Workshop Number: V A-S202

Reactivity: Human, **Cross-Reactivity*:** Cattle (Bovine, Cow)

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with TS2/16 PE/Cy5

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

- Application References:**
- Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
 - Gutierrez-Lopez M, *et al.* 2003. *J. Biol. Chem.* 278:208.
 - Hemler ME, *et al.* 1984. *J. Immunol.* 132:3011.
 - Sanchez-Aparicio P, *et al.* 1994. *J. Cell Biol.* 126:271.
 - Frank NY, *et al.* 2005. *Cancer Res.* 65:4320.
 - Murga M, *et al.* 2005. *Blood* 105:1992.
 - Porter JC and Hogg N. 1997. *J. Cell Biol.* 138:1437.
 - Conway RE, *et al.* 2006. *Mol. Cell. Biol.* 26:5310.

Description: CD29 is a 130 kD single chain type I glycoprotein, known as integrin β_1 , VLA- β chain, or gpIIa. 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.

- Antigen References:**
- Hemler M. 1990. *Annu. Rev. Immunol.* 8:365.
 - Hynes R. 1992. *Cell* 69:11.

Related Products:

Product	Clone	Application
PE/Cy5 anti-human CD49d	9F10	FC
PE/Cy5 Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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