

Product Data Sheet

APC anti-human CD29

Catalog # / Size: 303007 / 25 tests
303008 / 100 tests

Clone: TS2/16

Isotype: Mouse IgG1, κ

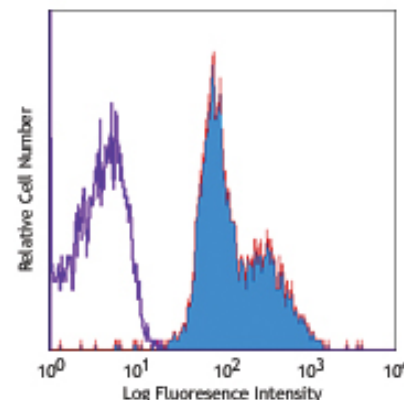
Workshop Number: V A-S202

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

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

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).

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.
- Murga M, *et al.* 2005. *Blood* 105:1992. PubMed

Description: CD29 is a 130 kD single chain type I glycoprotein, 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 α_1 - α_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
APC anti-human CD49d
APC Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)
Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
9F10
MOPC-21

Application
FC
FC, ICFC
FC, ICC, ICFC
FC, ICFC
FC, ICC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.