

PE anti-human CD109

Catalog # / Size: 323305 / 25 tests
323306 / 100 tests

Clone: W7C5

Isotype: Mouse IgG1, κ

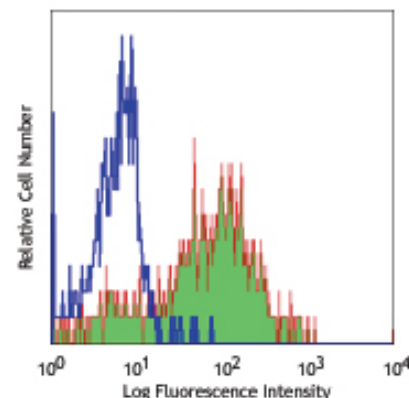
Immunogen: WERI-RB-1 retinoblastoma cell line

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE 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 monocytes stained with W7C5 PE

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 References:

1. Giesert C, *et al.* In: Hematopoietic Stem Cells 2002: Genetics and function.
2. Orlic D, *et al.* 2003. *Ann. New York Acad. Sci.* 996:227.
3. Vogel W, *et al.* 2002. *Haematologica* 88:126.

Description: The W7C5 monoclonal antibody recognizes human CD109 also known as the Gov platelet alloantigen. CD109 is a member of the alpha2-macroglobulin/complement gene family that is a GPI-linked cell surface antigen with a predicted molecular weight approximately 162 kD. CD109 contains a thioester motif characteristic of alpha-2-macroglobulin that undergoes autolytic cleavage under denaturing conditions. CD109 expression has been reported on CD34⁺ and CD34⁻ bone marrow stem cells, CD34⁺ cells in the fetal liver, CD34⁺ acute myeloid leukemia cells, T cell lines, activated T lymphoblasts, activated platelets, and endothelial cells. It is also widely expressed in the brain, uterus, heart, lung, and trachea of adults. The function of CD109 is largely unknown although it has been implicated in refractoriness to platelet transfusion, neonatal alloimmune thrombocytopenia, and post-transfusion purpura.

Antigen References:

1. Lin M, *et al.* 2002. *Blood* 99:1683.
2. Schuh AC, *et al.* 2002. *Blood* 99:1692.
3. Solomon KR, *et al.* 2004. *Gene* 327:171.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	PE Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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