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30-2663: Anti-Human CD109 PE (Clone : W7C5)

Clonality :	Monoclonal
Clone Name :	W7C5
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Gene :	CD109
Gene ID :	135228
Alternative Name :	CPAMD7, p180, r150, FLJ38569, GPA,CD109 molecule
Isotype :	Mouse IgG1
Immunogen Information :	WERI-RB-1 retinoblastoma cell line

Description

CD109, also known as the Gov platelet alloantigen, is a GPI-anchored glycoprotein which localizes to the surface of platelets, activated T-cells, and endothelial cells, as well as of various hematopoietic cells and T cell lines. The protein binds to and negatively regulates signaling by transforming growth factor beta (TGF-beta). Multiple transcript variants encoding different isoforms have been found for this gene. The Gov antigen system is involved in platelet transfusion reaction, posttransfusion purpura and in neonatal alloimmune thrombocytopenia.
Specificity : The mouse monoclonal antibody W7C5 recognizes CD109, an approximately 165 kDa GPI-anchored extracellular protein expressed mainly on various hematopoietic cells, activated T lymphoblasts, activated platelets, and endothelial cells.

Product Info

Amount :	100 tests
Purification :	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 ÃÂµl reagent / 100 ÃÂµl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

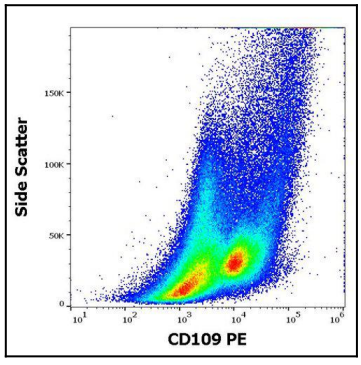


Figure 1 : Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD109 (W7C5) PE antibody (10 µl reagent per milion cells in 100 µl of cell suspension).

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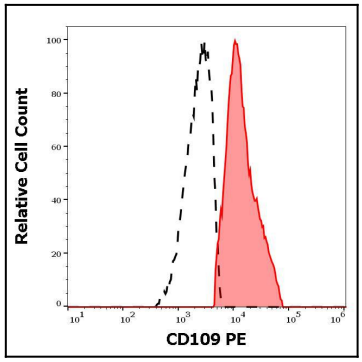


Figure 2 : Separation of human CD109 positive cells (red-filled) from CD109 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD109 (W7C5) PE antibody (10 µl reagent per milion cells in 100 µl of cell suspension).

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