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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  $\tilde{A} \square \hat{A} \mu l$  reagent / 100  $\tilde{A} \square \hat{A} \mu l$  of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

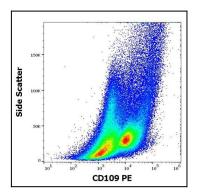


Figure 1 : Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD109 (W7C5) PE antibody (10  $\mu$ l reagent per milion cells in 100  $\mu$ l of cell suspension).



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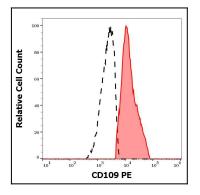


Figure 2 : Separation of human CD109 positive cells (red-filled) from CD109 negative cells (black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cells stained using anti-human CD109 (W7C5) PE antibody (10  $\mu$ l reagent per milion cells in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