

Product Data Sheet

Biotin anti-human CD109

Catalog # / Size: 323304 / 100 µg

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

biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. Do not freeze.

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq 0.5~\mu g$ per 10^6 cells in 100 μl volume. It is recommended that the reagent be titrated for optimal performance for each

application.

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

Biotin Mouse IgG1, κ Isotype Ctrl

APC Streptavidin
APC/Cy7 Streptavidin
PE Streptavidin PE/Cy5 Streptavidin PE/Cy7 Streptavidin Cell Staining Buffer

Human TruStain FcX™ (Fc Receptor Blocking Solution)

Relative Cell Number 100 102 104 Log Fluoresence Intensity

Human monocytic cell line THP-1 stained with biotinylated W7C5, followed by SAV-PE

Application Clone MOPC-21

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





