

Product Data Sheet

APC/Cy7 anti-human CD13

Catalog # / Size: 301709 / 25 tests
301710 / 100 tests

Clone: WM15

Isotype: Mouse IgG1, κ

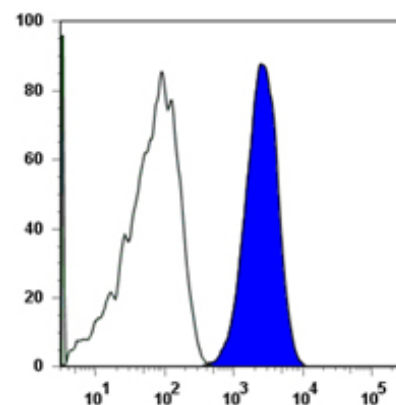
Workshop Number: IV M44

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cotton-topped Tamarin

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 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 granulocytes stained with WM15 APC/Cy7 and overlaid with isotype control

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: inhibition of tumor-cell invasion and blocking of aminopeptidase activities^{2,3}, and immunohistochemical staining of acetone-fixed frozen tissue sections⁵. WM15 does not recognize formalin-fixed or paraffin-embedded tissue sections⁵. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 301708).

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References:

1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
2. Saiki I, *et al.* 1993. *Int J Cancer*. 54:137. (Block)
3. Rosenzweig M, *et al.* 2000. *Blood* 95:453. (Block)
4. Kawase M, *et al.* 2008. *J Virol*. 83:712. (Block) PubMed
5. Di Matteo P, *et al.* 2011. *J. Histochem. Cytochem.* 59:47. (IHC)

Description: CD13 is a 150-170 kD type II transmembrane glycoprotein also known as aminopeptidase N, APN, and gp150. This zinc metalloproteinase as a homodimer is expressed on granulocytes, myeloid progenitors, endothelial cells, epithelial cells and subset of granular lymphoid cells. It is not expressed on platelets or erythrocytes. CD13 is thought to be involved in the metabolism of many regulatory peptides and functions in antigen processing and the cleavage of chemokines such as MIP-1. CD13 serves as the cellular receptor for Coronavirus.

Antigen References:

1. Shipp M, *et al.* 1993. *Blood* 82:1052.
2. Larsen S, *et al.* 1996. *J. Exp. Med.* 184:183.

Related Products:

Product
Cell Staining Buffer
RBC Lysis Buffer (10X)
APC/Cy7 Mouse IgG1, κ Isotype Ctrl
Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MOPC-21

Application

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



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