

PE/Dazzle™ 594 anti-human CD13

Catalog # / Size: 2108595 / 25 tests
2108600 / 100 tests

Clone: WM15

Isotype: Mouse IgG1, κ

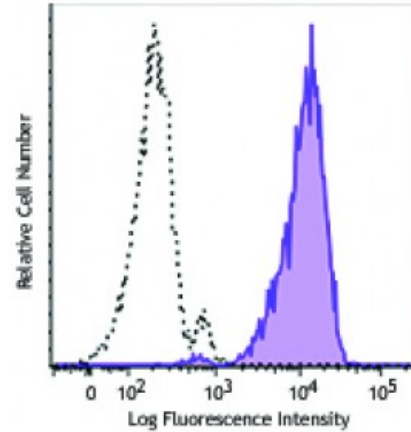
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: IV M44

Concentration: Lot-specific



Human peripheral granulocytes were stained with CD13 (clone WM15) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

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/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 301708).

Application References:

- Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
- Saiki I, *et al.* 1993. *Int J Cancer*. 54:137. (Block)
- Rosenzweig M, *et al.* 2000. *Blood* 95:453. (Block)
- Kawase M, *et al.* 2008. *J Virol*. 83:712. (Block) [PubMed](#)
- 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 metallopeptidase is expressed as a homodimer 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** 1. Shipp M, *et al.* 1993. *Blood* 82:1052.
- References:** 2. Larsen S, *et al.* 1996. *J. Exp. Med.* 184:183.