

**PE/Cy7 anti-human CD13**

**Catalog # / Size:** 2108555 / 25 tests  
2108560 / 100 tests

**Clone:** WM15

**Isotype:** Mouse IgG1, κ

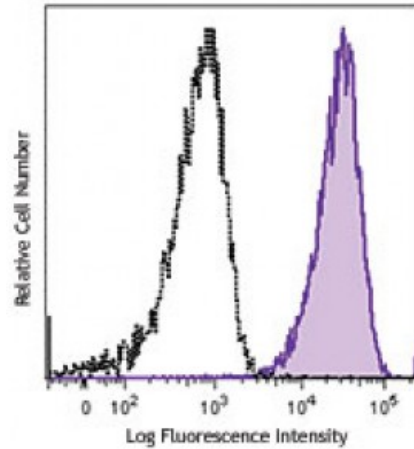
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 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 blood granulocytes were stained with CD13 (clone WM15) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 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. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: inhibition of tumor-cell invasion and blocking of aminopeptidase activities<sup>2,3</sup>, and immunohistochemical staining of acetone-fixed frozen tissue sections<sup>5</sup>. WM15 does not recognize formalin-fixed or paraffin-embedded tissue sections<sup>5</sup>. 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:**
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 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 References:**
1. Shipp M, *et al.* 1993. *Blood* 82:1052.
  2. Larsen S, *et al.* 1996. *J. Exp. Med.* 184:183.