

**Purified anti-human CD13**

**Catalog # / Size:** 2108510 / 100 µg  
2108505 / 25 µg

**Clone:** WM15

**Isotype:** Mouse IgG1, κ

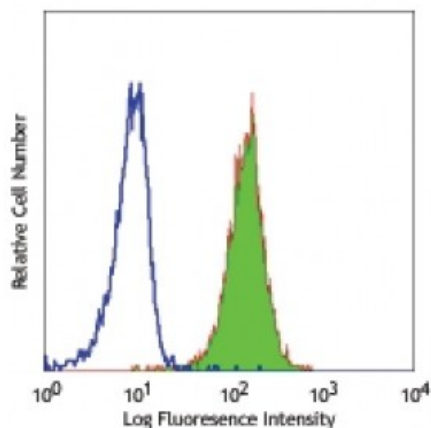
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography.

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

**Workshop Number:** IV M44

**Concentration:** 0.5



Human peripheral blood granulocytes stained with purified WM15, followed by anti-mouse IgGs FITC

**Applications:**

**Applications:** Flow Cytometry, Immunohistochemistry

**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 ≤2.0 microg per million cells in 100 microL volume. 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.