

## anti-human CD13

Monoclonal antibody WM-15 to human CD13

Cat-No: **21270131**

100 µg in 100 µl

**Clone:** WM-15

**Specificity:** CD13 is a 150 - 150 kDa 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 and subsets 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. It serves as the cellular receptor for Coronavirus.

**Isotype subclass:** Mouse IgG1 k

**Form:** Purified from ascites by protein-A affinity chromatography.

**Purity:** > 95% (by SDS-PAGE)

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.2).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label

**Storage conditions:** Store undiluted between 2 °C and 8 °C. Should be handled under aseptic conditions.

**Application:** Flow Cytometry, Immunohistochemistry

### 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. 2001. J Histochem. Cytochem. 59:47. (IHC)

**Background:** **CD13** (aminopeptidase N, APN) is a 150 kDa type II transmembrane zinc-binding ectopeptidase expressed on various cell types. This metalloprotease preferentially catalyzes removal of neutral amino acids from small peptides, thus activating or inactivating bioactive peptides. CD13 has also role in extracellular matrix degradation, antigen processing and signal transduction, is important in inflammatory responses, regulates intercellular contact, cell motility and vascularization. CD13 is involved in protection of leukemic cells against apoptosis and its expression associated with poor prognosis of carcinomas.

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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