

30-1269-PE-Cy5: Anti-CD13 / Aminopeptidase N Monoclonal Antibody (Clone:WM15)-PE-Cy5 Conjugated

Clonality :	Monoclonal
Clone Name :	WM15
Application :	FACS
Reactivity :	Human,Non-Human Primates
Conjugate :	R-PE/CY5
Gene :	ANPEP
Gene ID :	290
Uniprot ID :	P15144
Alternative Name :	ANPEP,APN,CD13,PEPN
Isotype :	Mouse IgG1
Immunogen Information :	Human AML cells

Description

Specificity: The antibody WM15 recognises an extracellular epitope of human CD13 cell surface glycoprotein, a 150 kDa molecule expressed on granulocytes, endothelial cells, epithelial cells and myeloid progenitors.

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.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 5 (PE-Cy™5) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

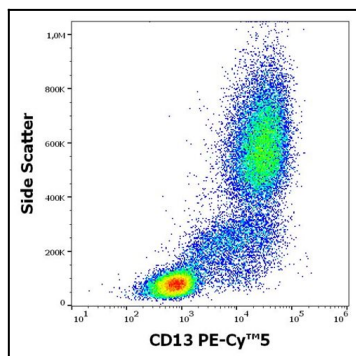


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD13 (WM15) PE-Cy5 antibody (concentration in sample 0.56 µg/ml).

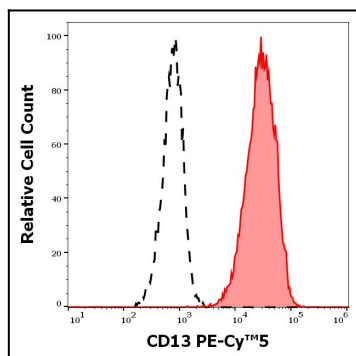


Figure 2: Separation of human neutrophil granulocytes (red-filled) from CD13 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD13 (WM15) PE-Cy5 antibody (concentration in sample 0.56 µg/ml).