

TECHNICAL DATA SHEET

CyFlow™ CD13 FITC Anti-Hu; Clone WM15

REF CN514627



Systemx Partec GmbH

Arndtstraße 11 a-b

02826 Görlitz

Tel +49 3581 8746 0

E-mail: info@sysmex-partec.com

www.sysmex-partec.com

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD13
Alternative Names	APN, gp150
Clone	WM15
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human Acute Myelogenous Leukemia (AML) cells

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services

Specificity

The mouse monoclonal antibody WM15 recognizes the human CD13 cell surface glycoprotein, a 150 kDa molecule expressed on granulocytes, endothelial cells, epithelial cells and myeloid progenitors.

HLDA III—WS Code M 213

HLDA IV—WS Code M 44

HLDA IV—WS Code M 209

HLDA V—WS Code M MA191

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20- μ l reagent-/ 100- μ l of whole blood or 10^6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.09% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD13 (APN; aminopeptidase N) 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.

Warnings










Non-Hazardous Statement: This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.

Safety Data Sheet Statement: Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet.

References

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- Favalaro EJ, Browning T, Facey D: CD13 (GP150: aminopeptidase-N): predominant functional activity in blood is localized to plasma and is not cell-surface associated. *Exp Hematol*. 1993 Dec; 21(13):1695-701. < PMID: 7902291 >
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- Terauchi M, Kajiyama H, Shibata K, Ino K, Nawa A, Mizutani S, Kikkawa F: Inhibition of APN/CD13 leads to suppressed progressive potential in ovarian carcinoma cells. *BMC Cancer*. 2007 Jul 27; 7:140. < PMID: 17655775 >
- McCormack E, Mujić M, Osdal T, Bruserud Ø, Gjertsen BT: Multiplexed mAbs: a new strategy in preclinical time-domain imaging of acute myeloid leukemia. *Blood*. 2013 Feb 14; 121(7):e34-42. < PMID: 23243270 >

Symbols

	Reagent catalogue number		Contains sufficient for <n> tests
	For Research Use Only. Not for use in diagnostic and therapeutic procedures.		Temperature limitation
	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use by		