

TECHNICAL DATA SHEET

CyFlow™ CD44 Purified Anti-Hu; Clone MEM-263

REF BL322560

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD44
Alternative Names	H-CAM, Pgp-1
Clone	MEM-263
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Pig Dog
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	COS-7 African green monkey kidney cells

Specificity

The mouse monoclonal antibody MEM-263 recognizes extracellular (N-terminal) domain of standard CD44, a 80-95 kDa transmembrane glycoprotein (hyaladherin family) present on the most of cells and

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tissues (leukocytes, endothelial cells, mesenchymal cells, etc.); it is negative on platelets and hepatocytes.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry (paraffin-embedded sections)

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (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

CD44 is a transmembrane glycoprotein expressed on the surface of most cells, which serves as a receptor for hyaluronan. CD44 mediates angiogenesis, cell adhesion, proliferation and migration, it is thus important for lymphocyte activation, recirculation and homing, it can thus serve e.g. as a modulator of macrophage recruitment in response to pathogen. Although CD44 functions are essential for physiological activities of normal cells, elevated CD44 expression correlates with poor prognosis in many carcinomas, facilitating tumor growth and metastasis, antiapoptosis and directional motility of cancer cells.

References

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- Subramaniam V, Gardner H, Jothy S: Soluble CD44 secretion contributes to the acquisition of aggressive tumor phenotype in human colon cancer cells. Exp Mol Pathol. 2007 Dec; 83(3):341-6. < PMID: 17945213 >

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

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