

TECHNICAL DATA SHEET

CyFlow™ CD44 FITC Anti-Hu/Ms; Clone IM7

REF BU174497

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD44
Alternative Names	H-CAM, Pgp-1
Clone	IM7
Clonality	monoclonal
Format	FITC
Host / Isotype	Rat / IgG2b
Species Reactivity	Human Mouse, Horse Dog Cat
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.5 mg/ml]
Immunogen	Dexamethasone-induced cells of the SJL mouse spontaneous myeloid leukemia M1

Specificity

The rat monoclonal antibody IM7 recognizes CD44 antigen, an 80-95 kDa transmembrane glycoprotein (hyaladherin family) present on the most of cells and tissues (leukocytes, endothelial cells, mesenchymal

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cells, etc.); it is negative on platelets and hepatocytes. The antibody reacts with all isoforms of mouse CD44.

Application

The reagent is designed for Flow Cytometry analysis. Suggested working usage is 2 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈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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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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