

TECHNICAL DATA SHEET

CyFlow™ CD144 Purified Anti-Hu; Clone 55-7H1

REF CP087269

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

Specifications

Antigen	CD144
Alternative Names	VE-cadherin, cadherin-5, CDH5, 7B4
Clone	55-7H1
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human endothelial cells

Specificity

The mouse monoclonal antibody 55-7H1 recognizes a calcium-independent epitope on CD144 antigen, an adhesion molecule expressed on endothelial cells.

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Application

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

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry (frozen sections)
- Immunocytochemistry

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

CD144 (VE-cadherin, cadherin 5) is the major cadherin that is present at endothelial junctions. It is also strictly endothelial specific. Under vascular permeability increasing conditions (and also in capillaries and veins) CD144 is being phosphorylated, which promotes its rapid and reversible internalization. On the contrary, binding of p120 catenin (δ 1 catenin) maintains CD144 localization at the plasma membrane, which stabilizes the junction and reduces vascular permeability.

References

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

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