



A6-770-T100

Monoclonal Antibody to CD144 Alexa Fluor® 647 conjugated (100 tests)

Clone: 55-7H1

Isotype: Mouse IgG1

Specificity: The mouse monoclonal antibody 55-7H1 recognizes a calcium-independent

epitope on CD144 (VE-cadherin, cadherin 5), an adhesion molecule expressed on

endothelial cells.

Regulatory Status: RUO

Immunogen: Human endothelial cells

Species Reactivity: Human

Preparation: The purified antibody is conjugated with Alexa Fluor® 647 under optimum

conditions. The conjugate is purified by size-exclusion chromatography and

adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution

containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 4

μl reagent / 100 μl of whole blood or 10° cells in a suspension.

The content of a vial (0.4 ml) is sufficient for 100 tests.

Expiration: See vial label

Lot Number: See vial label

Background: 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 (delta1 catenin) maintains CD144 localization at the plasma membrane, which stabilizes the junction and reduces vascular

permeability.



PRODUCT DATA SHEET

References:

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