

A4-770-T100

## Monoclonal Antibody to CD144 Alexa Fluor® 488 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® 488 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. The reagent is provided in stabilizing phosphate buffered saline (PBS) solution Storage Buffer: 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. The reagent is designed for Flow Cytometry analysis of human blood cells using 4 Usage:  $\mu$  reagent / 100  $\mu$ l of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. **Expiration:** See vial label See vial label Lot Number: CD144 / VE-cadherin (cadherin 5) is the major cadherin that is present at **Background:** 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.

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References:

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