

1P-274-T100

## Monoclonal Antibody to CD147 Phycoerythrin (PE) conjugated (100 tests)

Clone: MEM-M6/1

Isotype: Mouse IgG1

**Specificity:** The antibody MEM-M6/1 recognizes an epitope in the N-terminal Ig domain (D1) of

CD147 (Neurothelin), a 50-60 kDa type I transmembrane glycoprotein primarily expressed on all leukocytes, red blood cells, platelets and endothelial cells; it is not

expressed by resting lymphocytes.

The antibody MEM-M6/1 is a high-affinity antibody capable of binding to

unstimulated peripheral blood T cells.

Regulatory Status: RUO

Immunogen: Protein A-CR purified soluble recombinant form of CD147, CD147Rg, which

consists of the cDNA coding for the hinge region, CH2-and CH3 domain of human

IgG1 (CD147Rg is secreted by transfectants as a dimer).

Species Reactivity: Human

Preparation: The purified antibody is conjugated with R-Phycoerythrin (PE) 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

20 μl reagent / 100 μl of whole blood or 10<sup>6</sup> cells in a suspension.

The content of a vial (2 ml) is sufficient for 100 tests.

**Expiration:** See vial label

**Lot Number:** See vial label

Background: CD147 (basigin, neurothelin, OX-47, 5A11, CE9, M6) also known as EMMPRIN

(extracellular matrix metalloproteinase inducer) or TCSF (tumour cell-derived collagenase-stimulatory factor) is an ubiquitously expressed cell surface protein with multiple glycosylated forms. The highest level of CD147 expression is on metabolically active cells, such as lymphoblasts, inflammatory cells, brown adipocytes and malignant tumour cells. CD147 has multiple functions, including facilitating of cell surface expression of monocarboxylate transporter proteins and extracellular matrix metalloproteinases, regulation of integrin functions, it plays roles in cell development and activation, fetal development or retinal function.



## PRODUCT DATA SHEET

## References:

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