



1P-783-T100

Monoclonal Antibody to CD146 Phycoerythrin (PE) conjugated (100 tests)

Clone:	P1H12
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody P1H12 recognizes CD146, a 118 kDa transmembrane glycoprotein expressed on epithelial and endothelial cells, fibroblasts, multipotent mesenchymal stromal cells, melanoma cells, activated T cells and activated keratinocytes. Workshop: HLDA 8
Regulatory Status:	RUO
Immunogen:	cultured human umbilical cells
Species Reactivity:	Human, Mouse, Canine (Dog), Rabbit
Negative Species:	Rat
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 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD146, also known as MCAM (melanoma cell adhesion molecule) or MUC18, is a heavily glycosylated transmembrane glycoprotein with more than 50% of the mass from carbohydrates. It is expressed on epithelial and endothelial cells, fibroblasts, multipotent mesenchymal stromal cells, activated T cells and activated keratinocytes, and on some cancer cells, especially melanoma. The presence of CD146 on circulating blood cells has been confined to the activated T cells rather than circulating endothelial cells. CD146 mediates heterophilic cell adhesion and regulates monocyte transendothelial migration.

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Antibodies

References:

*Solovey AN, Gui L, Chang L, Enestein J, Browne PV, Hebbel RP: Identification and functional assessment of endothelial P1H12. *J Lab Clin Med.* 2001 Nov;138(5):322-31.

*Kamstock D, Guth A, Elmslie R, Kurzman I, Liggitt D, Coro L, Fairman J, Dow S: Liposome-DNA complexes infused intravenously inhibit tumor angiogenesis and elicit antitumor activity in dogs with soft tissue sarcoma. *Cancer Gene Ther.* 2006 Mar;13(3):306-17.

*Solovey A, Lin Y, Browne P, Choong S, Wayner E, Hebbel RP: Circulating activated endothelial cells in sickle cell anemia. *N Engl J Med.* 1997 Nov 27;337(22):1584-90.

*Finney MR, Greco NJ, Haynesworth SE, Martin JM, Hedrick DP, Swan JZ, Winter DG, Kadereit S, Joseph ME, Fu P, Pompili VJ, Laughlin MJ: Direct comparison of umbilical cord blood versus bone marrow-derived endothelial precursor cells in mediating neovascularization in response to vascular ischemia. *Biol Blood Marrow Transplant.* 2006 May;12(5):585-93.

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