

1P-783-T025

Monoclonal Antibody to CD146 Phycoerythrin (PE) conjugated (25 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 (0.25 ml) is sufficient for 25 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.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

References:

*Solovey AN, Gui L, Chang L, Enenstein 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.

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at www.exbio.cz.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 42 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz