

Datasheet for ABIN2749196
anti-MCAM antibody (PE)



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Overview

Quantity:	100 tests
Target:	MCAM
Reactivity:	Human, Mouse, Rabbit, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MCAM antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	cultured human umbilical cells
Clone:	P1H12
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody P1H12 recognizes an extracellular epitope of 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.
No Cross-Reactivity:	Rat
Cross-Reactivity (Details):	Human, Mouse, Canine (Dog), Rabbit
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	MCAM
Alternative Name:	CD146 (MCAM Products)
Background:	Melanoma cell adhesion molecule,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.,MelCAM, MCAM, MUC18
Gene ID:	4162
UniProt:	P43121

Application Details

Application Notes:	Flow cytometry: The reagent is designed for 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.
Comment:	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.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

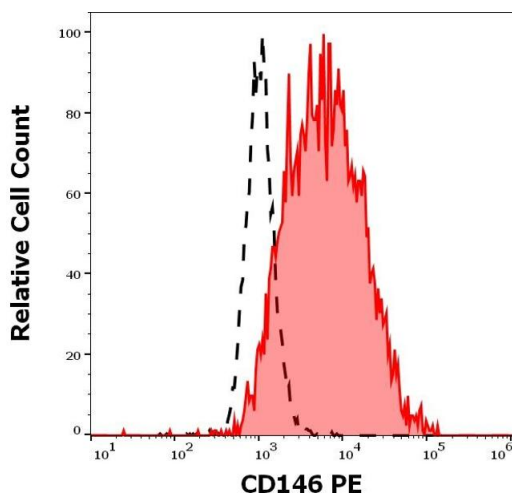
Publications

Product cited in: Kamstock, Guth, Elmslie, Kurzman, Liggitt, Coro, Fairman, Dow: "Liposome-DNA complexes infused intravenously inhibit tumor angiogenesis and elicit antitumor activity in dogs with soft tissue sarcoma." in: **Cancer gene therapy**, Vol. 13, Issue 3, pp. 306-17, (2006) ([PubMed](#)).

Solovey, Gui, Chang, Enestein, Browne, Hebbel: "Identification and functional assessment of endothelial P1H12." in: **The Journal of laboratory and clinical medicine**, Vol. 138, Issue 5, pp. 322-31, (2001) ([PubMed](#)).

Solovey, Lin, Browne, Choong, Wayner, Hebbel: "Circulating activated endothelial cells in sickle cell anemia." in: **The New England journal of medicine**, Vol. 337, Issue 22, pp. 1584-90, (1997) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Separation of cells stained using anti-human CD146 (P1H12) PE antibody (10 μ L reagent per million cells in 100 μ L of cell suspension, red-filled) from cells stained using mouse IgG1 isotype control (MOPC-21) PE antibody (concentration in sample 1,67 μ g/mL, same as CD146 PE concentration, black-dashed) in flow cytometry analysis (surface staining) of HUVEC cell suspension.