Datasheet for ABIN2749195

anti-MCAM antibody

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Overview

Quantity:	0.1 mg
Target:	MCAM
Reactivity:	Human, Mouse, Dog, Rabbit
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MCAM antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

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 by protein-A affinity chromatography.

Product Details

Purity:	> 95 % (by SDS-PAGE)

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:	Western blotting: Nonreducing conditions. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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. Do not freeze.

Publications

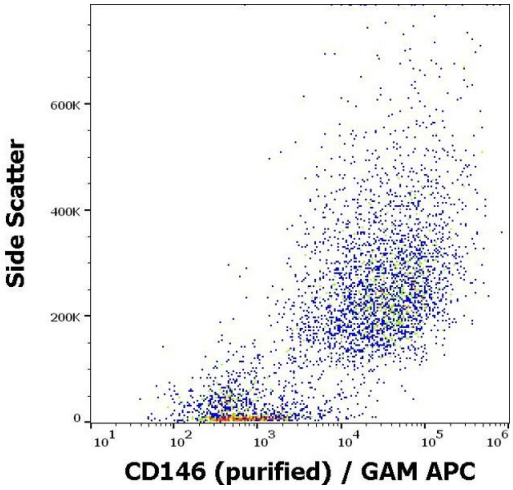
Product cited in:

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, Enenstein, 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).

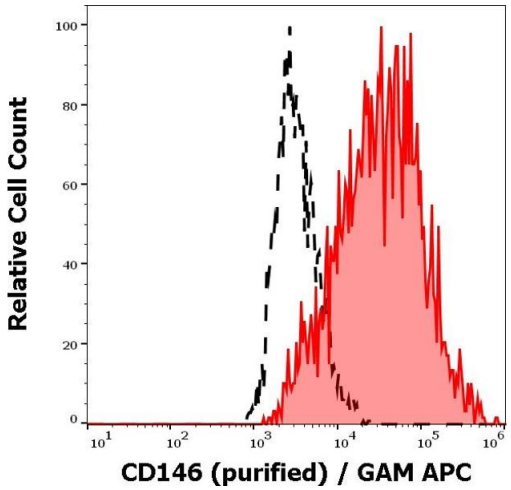
Solovey, Lin, Browne, Choong, Wayner, Hebbel: "Circulating activated endothelial cells in sickle cell anemia." in: **The New England journal of medicine**, Vol. 337, Issue 22, pp. 1584-90, (1997) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of HUVEC cells stained using anti-human CD146 (P1H12) purified antibody (concentration in sample 1 µg/mL) GAM APC.



Flow Cytometry

Image 2. Separation of HUVEC cells (red-filled) from 3T3 cells (black-dashed) in flow cytometry analysis (surface staining) of cell lines stained using anti-human CD146 (P1H12) purified antibody (concentration in sample 1 µg/mL) GAM APC.