

Monoclonal Antibody to CD146 - FITC

Alternate names:	A32, CD146, Cell surface glycoprotein P1H12, MCAM, MUC18, Melanoma cell adhesion molecule, Melanoma-associated antigen MUC18, S-endo 1 endothelial-associated antigen
Catalog No.:	SM1860F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD146 is a member of the immunoglobulin superfamily, expressed by all endothelial cells and by melanoma cells. CD146 appears to act as an adhesion molecule. Expression in melanoma may be linked to disease progression.
Uniprot ID:	P43121
NCBI:	NP_006491.2
GeneID:	4162
Host / Isotype:	Mouse / IgG1
Clone:	OJ79c
Immunogen:	Recombinant Human MUC18 (D1-D5) Fc protein. Spleen cells from immunised mice were fused with cells of the mouse Sp2/0 Ag.14 myeloma cell line.
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein G. Buffer System: PBS containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat-1/10 diluted CD146 antibody to label 10e6 cells in 100 µl. Clone OJ79c (Purified antibody Cat.-No. SM1860P/PT) has been successfully used in ELISA and Immunohistochemistry on Frozen Sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the 118 kD cell surface glycoprotein CD146, also known as MUC18, Mel-CAM and S-endo. CD146 is a member of the immunoglobulin superfamily, expressed by all endothelial cells and by melanoma cells. Species: Human and Pig. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Product Citation: 1. Sven Möbius-Winkler, Thomas Hilberg, Kathleen Menzel, Eva Golla, Agnieszka Burman, Gerhard Schuler, and Volker Adams. Time-dependent mobilization of circulating progenitor cells during strenuous exercise in healthy individuals. *J. Appl. Physiol.*, Dec 2009; 107: 1943-1950.

General References: 1. Kuzu, I. et al. (1993) Expression of adhesion molecules on the endothelium of normal tissue vessels and vascular tumours. *Lab. Invest.* 69: 322-328.
2. Crisan, M. et al. (2008) A perivascular origin for mesenchymal stem cells in multiple human organs. *Cell Stem Cell.* 3: 301-13.
3. Iohara, K. et al. (2008) A novel stem cell source for vasculogenesis in ischemia: subfraction of side population cells from dental pulp. *Stem Cells.* 26: 2408-2418.
4. Park, T.S. et al. (2010) Placental Perivascular Cells for Human Muscle Regeneration. *Stem Cells Dev.* Oct 5. [Epub ahead of print]

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