

Mouse CD146 Monoclonal Antibody | anti-CD146 antibody

MOUSE ANTI HUMAN CD146:FITC

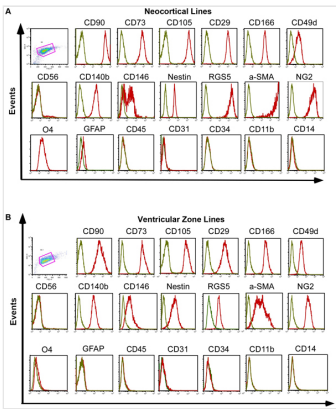
CATALOG # AAA49091	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD146; Monoclonal Antibody; MOUSE ANTI HUMAN CD146:FITC; anti-CD146 antibody

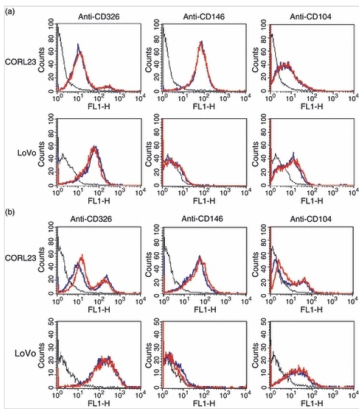
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	OJ79c
Form/Format	FITC Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1 mg/ml (varies by lot)
Sequence Length	646
Applicable Applications for anti-CD146 antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation
Buffer Solution	Phosphate buffered saline
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



Application Data

Published customer image: Brain-derived cell lines express markers for mesenchymal stem cells and pericytes but not for glial or neuronal precursors. (A) Representative histogram of flow cytometry analysis of cortical line and (B) ventricular zone line. Progenitors from all donors and both regions highly express MSC (CD90, CD73, CD105, CD29, CD166 and CD49d) and pericyte markers (CD140b/PDGFR-beta, RGS5, CD146, Nestin, a-SMA and NG2). They do not express hematopoietic (CD45), endothelial (CD31, CD34), microglial (CD14, CD11), glial or neuronal precursor cell markers (GFAP, O4) or myofibroblast markers (CD56), (green = isotype, red = respective marker).From: Paul G, Özen I, Christophersen NS, Reinbothe T, Bengzon J, et al. (2012) The Adult Human Brain Harbors Multipotent Perivascular Mesenchymal Stem Cells. PLoS ONE 7(4): e35577.



Application Data

Published customer image; Conjugated and unconjugated anti-CD326, anti-CD146 and anti-CD104 were analysed by flow cytometry for binding to CORL23 and LoVo cells [black line, negative control; blue line, unconjugated antibody; red line, immunconjugates with porphyrin 1 (a) or porphyrin 2 (b)].From: Smith K, Malatesti N, Cauchon N, Hunting D, Lecomte R, van Lier JE, Greenman J, Boyle RW. Mono- and tri-cationic porphyrin-monoclonal antibody conjugates: photodynamic activity and mechanism of action. Immunology. 2011 Feb;132(2):256-65.

ADDITIONAL INFORMATION

Related Product Information for anti-CD146 antibody

Mouse anti Human CD146 antibody, clone OJ79c recognizes human Cell surface glycoprotein MUC18, also known as CD146, Cell surface glycoprotein P1H12, Melanoma cell adhesion molecule or S-endo 1 endothelial-associated antigen. CD146 is a 646 amino acid single pass type 1 transmembrane glycoprotein with a calculated molecular mass of ~72 kDa. However due to extensive N-linked glycosylation CD146 migrates in polyacrylamide gels with an apparent molecular mass of ~:118 kDa. CD146 is a member of the immunoglobulin superfamily bearing 2 V-type Ig-like and 3 C-type Ig-like domains. CD146 is expressed by all endothelial cells and by melanoma cells and appears to act as an adhesion molecule (UniProt: P43121). Expression in melanoma may be linked to tumor progression (Lehmann et al. 1989). Mouse anti Human CD146 antibody, clone OJ79c is highly expressed on pericytes and has been utilized for the identification of perivascular mesenchymal precursor cells from cardiac muscle using flow cytometry (Chen et al. 2014).

NCBI AND UNIPROT INFORMATION

NCBI GI #	71274107
NCBI GeneID	4162
NCBI Accession #	NP_006491.2
NCBI GenBank Nucleotide #	NM_006500.2
UniProt Accession #	P43121; O95812; Q59E86; Q6PHR3; Q6ZTR2
Molecular Weight	57,605 Da
NCBI Official Full Name	cell surface glycoprotein MUC18
NCBI Official Synonym Full Names	melanoma cell adhesion molecule
NCBI Official Symbol	MCAM
NCBI Official Synonym Symbols	CD146; MUC18
NCBI Protein Information	cell surface glycoprotein MUC18; Gicerin; S-endo 1 endothelial-associated antigen; cell surface glycoprotein P1H12; melanoma adhesion molecule; melanoma-associated antigen A32; melanoma-associated antigen MUC18

UniProt Protein Name	Cell surface glycoprotein MUC18
UniProt Gene Name	MCAM
UniProt Synonym Gene Names	MUC18
UniProt Entry Name	MUC18_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd146-antibody-clone-oj79c-flow-cytometry-elisa/49091>