

Mouse CD146 Monoclonal Antibody | anti-CD146 antibody

MOUSE ANTI HUMAN CD146:RPE

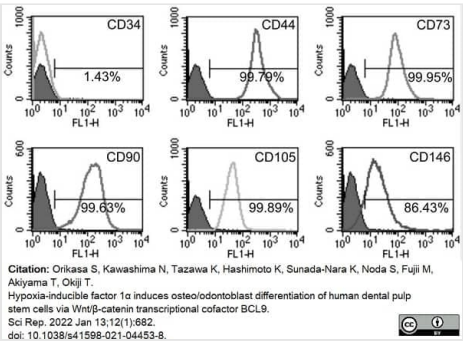
CATALOG # AAA12293	HOST Mouse	REACTIVITY Human, Dog, Pig	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD146; Monoclonal Antibody; MOUSE ANTI HUMAN CD146:RPE; MUC18; anti-CD146 antibody

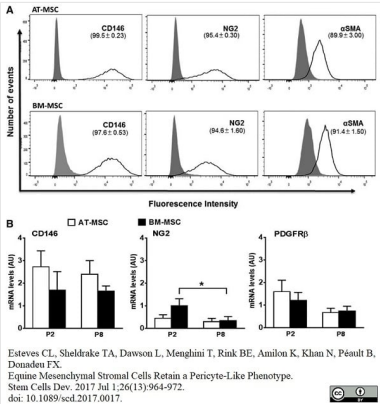
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Dog, Pig
Clonality	Monoclonal
Isotype	IgG1
Clone Number	OJ79c
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Form/Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized ALEXA FLUOR 647, FITC, Preservative Free, Purified, RPE Phosphate buffered saline 0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 5% Sucrose
Applicable Applications for anti-CD146 antibody	FCM/FACS (Flow Cytometry)
Application Notes	FC/FACS: Max Neat
Immunogen	Recombinant human MUC18 (D1-D5) Fc protein.
Reconstitution	Reconstitute with 1.0 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. We recommend that the vial is gently mixed after reconstitution.



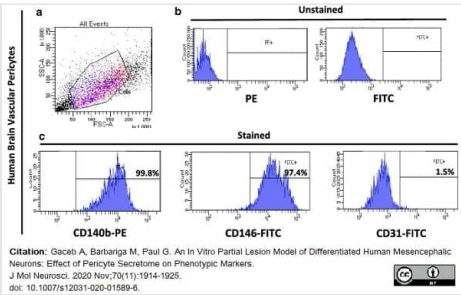
Application Data

Published customer image: Mouse anti Human CD146 antibody, clone OJ79c used to assess CD146 expression on cultured mesenchymal stem cells by flow cytometry. Image caption: hDPSCs express typical mesenchymal stem cell (MSC) markers and exhibit multi-differentiation potential. (a) Typical MSC markers (CD44, CD73, CD90, CD105, CD146) are highly expressed in hDPSCs, and hDPSCs are mostly negative for a hematopoietic marker (CD34). hDPSCs possess neurogenic, adipogenic, chondrogenic, and osteogenic differentiation potential, as determined by the expression of neurogenic markers (GFAP and NF-M). From: Orikasa S, Kawashima N, Tazawa K, Hashimoto K, Sunada-Nara K, Noda S, Fujii M, Akiyama T, Okiji T. Hypoxia-inducible factor 1 α induces osteo/odontoblast differentiation of human dental pulp stem cells via Wnt/ β -catenin transcriptional cofactor BCL9.



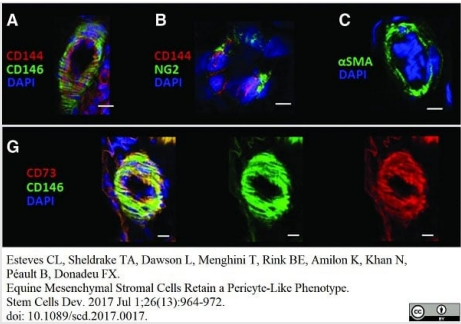
Application Data

Published customer image: Alexa-Fluor $\oplus$ 647 conjugated Mouse anti Human CD146 antibody, clone OJ79c used to assess CD146 expression on adipose tissue-derived and bone marrow-derived mesenchymal stem cells by flow cytometry. Image caption: (A) Flow cytometry histograms showing the proportions of AT-MSCs and BM-MSCs (upper and lower panels, respectively) that are positive for staining with the antibodies CD146-AF647, NG2-APC, and α SMA (with secondary AF405 conjugated). Isotype controls are shown by the gray peak and unstained curves are omitted for simplicity. (B) Results of qPCR analysis of CD146, NG2, and PDGFR β in AT-MSCs and BM-MSCs at passages 2 (P2) and 8 (P8). All results are shown as mean $\pm$ SEM; n = 3 animals. *P < 0.05.



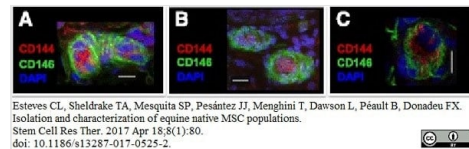
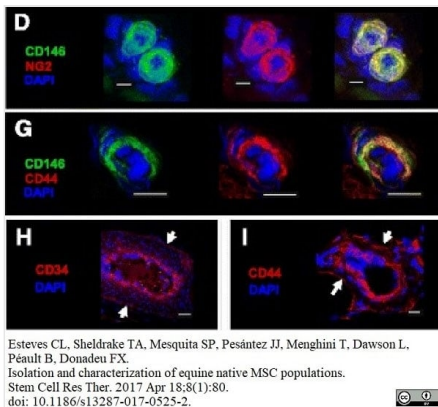
Application Data

Published customer image: FITC conjugated Mouse anti Human CD146 antibody, clone OJ79c used to evaluate CD146 expression on human brain vascular pericytes by flow cytometry. Image caption: Characterisation of human brain vascular pericytes by flow cytometry. (A) Cells were identified according to forward scatter (FSC) and side scatter (SSC) intensity. (B) Histograms of unstained human brain pericytes. (C) Histograms represent the fluorescence intensity of human brain pericytes after incubation with CD140b, CD146, and CD31 antibodies, respectively. (3 independent experiments, 3 replicates)



Application Data

Published customer image: FITC conjugated Mouse anti CD146 antibody, clone OJ79c used to demonstrate CD146 expressing equine pericytes by immunofluorescence. Image caption: IHC of equine AT sections showing staining for the pericyte markers, CD146 (A), NG2 (B), α SMA (C), (red; A, B). Colocalization of MSC markers CD146 and CD73; F, G, in yellow (left panel) from the overlap of green (middle panel) and red (right panel) individual antibody fluorescence. DAPI was used to stain nuclei. Scale bar, 10 μ m, is indicated by white bars. IHC, immunohistochemistry; MSC, mesenchymal stem/stromal cell. I.



Application Data

Published customer image: Mouse anti Human CD146 antibody, clone OJ79c used for the demonstration of equine CD146 expressing cells by immunofluorescence. Image caption: Immunohistochemistry of pericyte, adventitial cell, and MSC markers in equine tissues. a–c Pericytes stained for CD146 surrounding CD144+ endothelial cells in adipose tissue (a), testis (b), and skeletal muscle (c). 4',6-Diamidino-2-phenylindole (DAPI) was used to stain cell nuclei. White scale bars = 10 μm.

Application Data

Published customer image: Mouse anti Human CD146 antibody, clone OJ79c used for the demonstration of equine CD146 expressing cells by immunofluorescence. Image caption: Immunohistochemistry of pericyte, adventitial cell, and MSC markers in equine tissues. d, Dual staining (right panel) with the pericyte markers NG2 and CD146 (d) in adipose tissue. g, Colocalization (right panel) of the MSC and pericyte markers CD44 and CD146 (g) in adipose tissue. d–g Individual staining is shown (left and middle panels). h, i Immunodetection of the adventitial cell marker CD34 (h) and the MSC marker CD44 (i) in the outer layer of blood vessels (arrows) in adipose tissue. 4',6-Diamidino-2-phenylindole (DAPI) was used to stain cell nuclei. White scale bars = 10 μm.

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 (MCAM) 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).

Product Categories/Family for anti-CD146 antibody

Primary

NCBI AND UNIPROT INFORMATION

NCBI GeneID

4162

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd146-antibody-clone-oj79c-flow-cytometry-elisa/12293>