

Mouse anti-Human, Dog PECAM-1 / CD31 Monoclonal Antibody | anti-PECAM-1 antibody

Mouse Monoclonal [clone 1H6] (IgG1) to Human PECAM-1 / CD31

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52533	Mouse	Human, Dog	Flow Cytometry, Functional Assay, Western Blot, Immunofluorescence, Immunohistochemistry

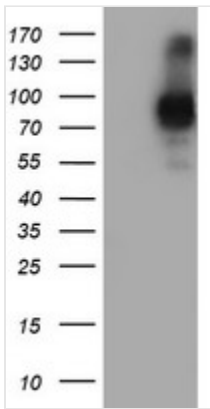
PRODUCT SYNONYMS

PECAM-1 / CD31; Monoclonal Antibody; Mouse Monoclonal [clone 1H6] (IgG1) to Human PECAM-1 / CD31; PECAM1; CD31; CD31 antigen; EndoCAM; PECA1; PECAM-1; GPIIA; anti-PECAM-1 antibody

PRODUCT SPECIFICATIONS

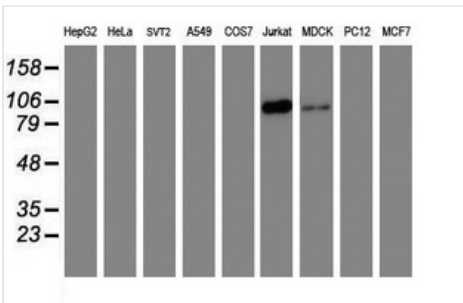
Host	Mouse
Reactivity	Human, Dog
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1H6
Specificity	Human CD31
Purity/Purification	Immunoaffinity purified from tissue culture supernatant
Form/Format	PBS, pH 7.3, 0.02% Sodium Azide, 50% Glycerol, 1% BSA
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PECAM-1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry)
Target	PECAM-1/CD31
Immunogen Species	PECAM-1 / CD31 antibody was raised against Human.
Antigen Type	Recombinant protein
Immunogen	PECAM/CD31 antibody was raised against full length human recombinant protein of human PECAM (NP_00433) produced in HEK293T cell.
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip.
Preparation and Storage	Store at -20°C. Avoid freeze-thaw cycles.



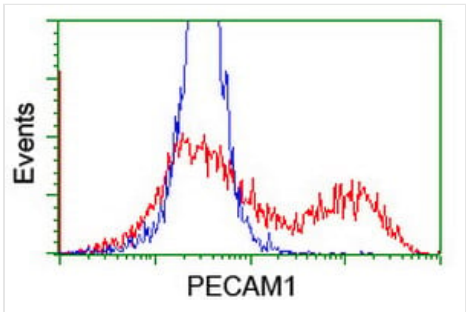
WB (Western Blot)

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PECAM1 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PECAM1.



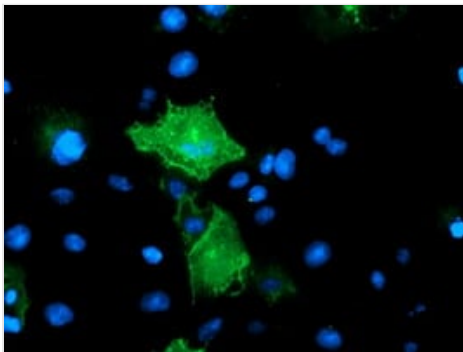
WB (Western Blot)

Western blot of extracts (35 ug) from 9 different cell lines by using g anti-PECAM1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



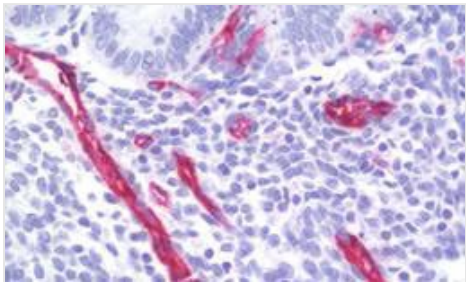
FCM/FACS (Flow Cytometry)

HEK293T cells transfected with either overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PECAM1 antibody, and then analyzed by flow cytometry.



IF (Immunofluorescence)

Anti-PECAM1 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PECAM1.



IHC (Immunohistochemistry)

Anti-PECAM-1 / CD31 antibody IHC staining of human uterus, endometrium. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 20 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-PECAM-1 antibody	CD31 (PECAM1) is found on the surface of platelets, monocytes, neutrophils, and some types of T-cells, and makes up a large portion of endothelial cell intercellular junctions. CD31 is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	110347451
NCBI GeneID	5175

NCBI Accession #	NP_000433.3
NCBI GenBank Nucleotide #	NM_000442.3
UniProt Accession #	P16284 ; Q6LDA9 ; Q8TBH1 ; Q96RF5 ; Q96RF6 ; Q9NP65 ; Q9NPB7 ; Q9NPG9 ; Q9NQS9 ; Q9NQT0 ; A8K3S7 ; D3DU31
NCBI Official Full Name	platelet endothelial cell adhesion molecule
NCBI Official Synonym Full Names	platelet/endothelial cell adhesion molecule 1
NCBI Official Symbol	PECAM1
NCBI Official Synonym Symbols	CD31; PECA1; GPIIA'; PECAM-1; endoCAM; CD31/EndoCAM
NCBI Protein Information	platelet endothelial cell adhesion molecule; CD31 antigen
UniProt Protein Name	Platelet endothelial cell adhesion molecule
UniProt Gene Name	PECAM1
UniProt Synonym Gene Names	PECAM-1
UniProt Entry Name	PECA1_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/pecam-1-cd31-antibody-clone-1h6-flow-cytometry-western-blot-immunofluorescence-immunohistochemistry-elisa/52533>