

Mouse CD31 / PECAM-1 Monoclonal Antibody | anti-PECAM1 antibody

CD31 / PECAM-1 (Endothelial Cell Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62652	Mouse	Human.Weakly reacts with Rat	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

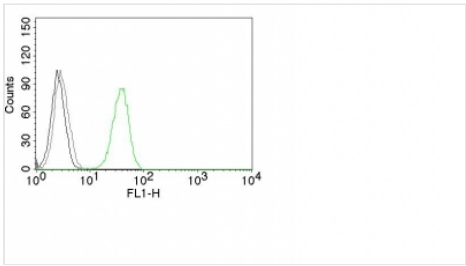
PRODUCT SYNONYMS

CD31 / PECAM-1; Monoclonal Antibody; CD31 / PECAM-1 (Endothelial Cell Marker) Mouse Monoclonal Antibody; EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA; anti-PECAM1 antibody

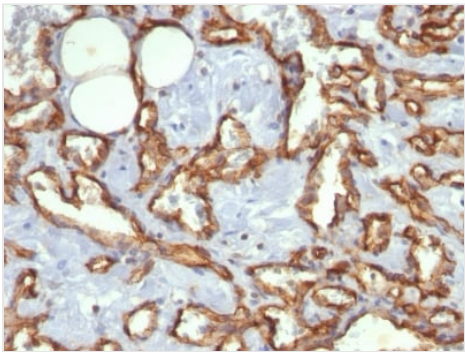
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Weakly reacts with Rat
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	C31.3
Specificity	CD31 (PECAM-1) is a transmembrane glycoprotein member of the immunoglobulin supergene family of adhesion molecules. CD31 is expressed by stem cells of the hematopoietic system and is primarily used to identify and concentrate these cells for experimental studies as well as for bone marrow transplantation. Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. CD31 MAb reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining. The level of CD31 expression can help to determine the degree of tumor angiogenesis, and a high level of CD31 expression may imply a rapidly growing tumor and potentially a predictor of tumor recurrence.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	738
Applicable Applications for anti-PECAM1 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cell Surface and Cytoplasm of endothelial cells
Immunogen	Human recombinant CD31 protein
Hu-Chromosome Location	17q23.3
Positive Control	Jurkat cells. Tonsil or Angiosarcoma.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

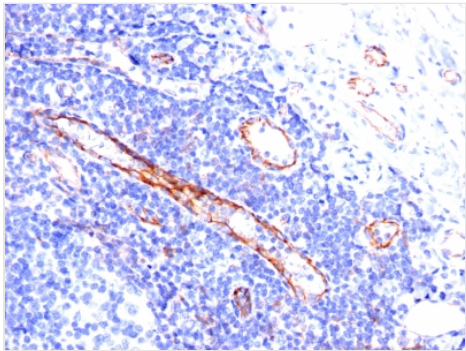
IMAGES



FCM/FACS (Flow Cytometry)
Flow Cytometry of human CD31 on Jurkat Cells. Black: Cells alone; Green: Isotype Control; Red: AF488-labeled CD31 Monoclonal Antibody (C31.3).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Angiosarcoma stained with CD31 Monoclonal Antibody (C31.3).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with CD31 Monoclonal Antibody (C31.3).

ADDITIONAL INFORMATION

References	Gratzinger D et. al. Am J Clin Pathol 131:264-278 (2009).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	313760624
NCBI GeneID	5175
NCBI Accession #	NP_000433.4
NCBI GenBank Nucleotide #	NM_000442.4
UniProt Accession #	P16284; Q6LDA9; Q8TBH1; Q96RF5; Q96RF6; Q9NP65; Q9NPB7; Q9NPG9; Q9NQS9; Q9NQT0; A8K3S7; D3DU31
Molecular Weight	~100kDa (endothelium); ~130kDa (platelets)
NCBI Official Full Name	platelet endothelial cell adhesion molecule
NCBI Official Synonym Full Names	platelet and 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
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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd31-pecam-1-antibody-clone-c31-3-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62652>