

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

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

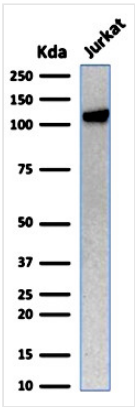
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA13801	Mouse	Human, Cynomolgus Monkey, Rabbit. Weakly reacts with Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

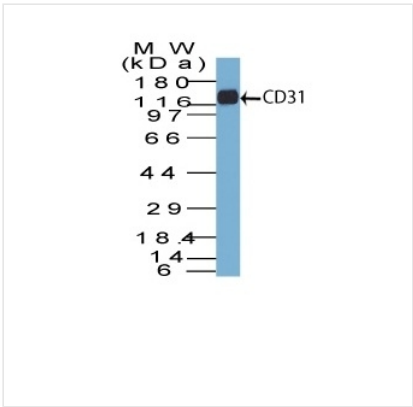
CD31 / PECAM-1; Monoclonal Antibody; CD31 / PECAM-1 (Endothelial Cell Marker) Mouse Monoclonal Antibody; EndoCAM; PECA1; Platelet Endothelial Cell Adhesion Molecule 1; GPIIA; anti-PECAM1 antibody

PRODUCT SPECIFICATIONS

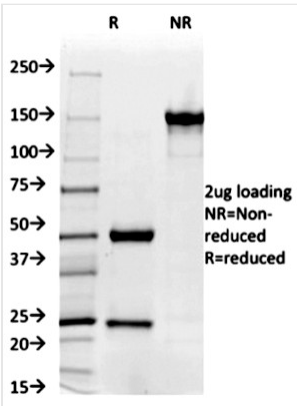
Host	Mouse
Reactivity	Human, Cynomolgus Monkey, Rabbit. Weakly reacts with Rat
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	C31.7
Specificity	CD31 (PECAM-1) is a transmembrane glycoprotein member of the immunoglobulin supergene family of adhesion molecules. CD31 is expressed by stem cells of 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	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Flow Cytometry (1-2ug/million cells) Western Blot (1-2ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.
Cellular Localization	Cell Surface and Cytoplasmic
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.



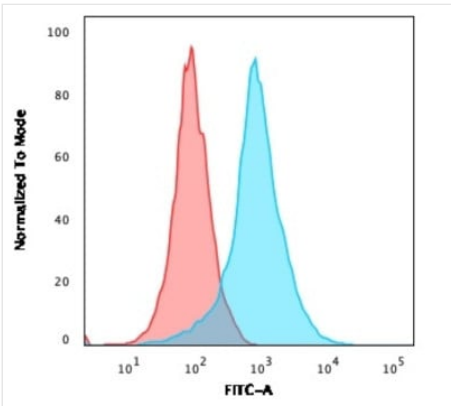
WB (Western Blot)
Western Blot Analysis of human Jurkat cell lysate using CD31 Mouse Monoclonal Antibody (C31.7).



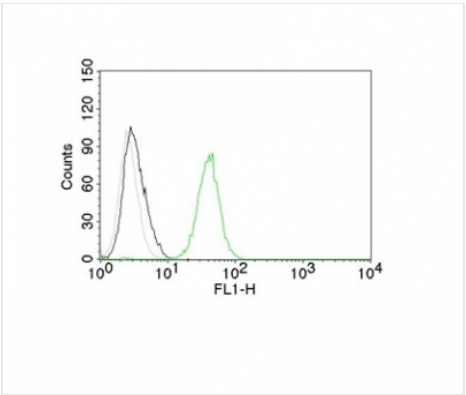
WB (Western Blot)
Western Blot of CD31 in THP-1 Lysate using CD31 Monoclonal Antibody (C31.7)



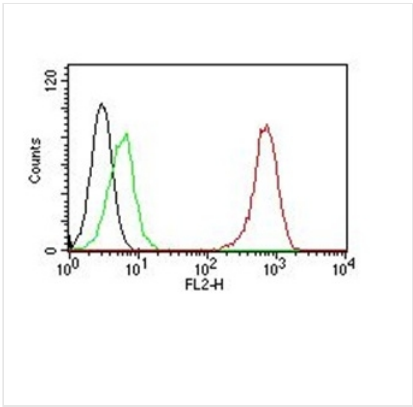
SDS-PAGE
SDS-PAGE Analysis Purified CD31 Mouse Monoclonal Antibody (C31.7). Confirmation of Purity and Integrity of Antibody.



FCM (Flow Cytometry)
Flow Cytometric Analysis of paraformaldehyde-fixed Jurkat cells using CD31 Mouse Monoclonal Antibody (158-2B3) followed by goat anti-Mouse- IgG-CF488 (Blue); Isotype Control (Red).



FCM (Flow Cytometry)
Flow Cytometry of human CD31 on Jurkat Cells. Black: Cells alone; Grey: Isotype Control; Green: AF488-labeled CD31 Monoclonal Antibody (C31.7).



FCM (Flow Cytometry)
Flow Cytometry of human CD31 on Jurkat Cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled CD31 Monoclonal Antibody (C31.7).

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
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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-c31-7-flow-cytometry-immunofluorescence-western-blot-immunohistochemistry-elisa/13801>