

Mouse anti-Human CD31 Monoclonal Antibody | anti-CD31 antibody

Monoclonal Antibody to CD31 (Clone: C31.7)

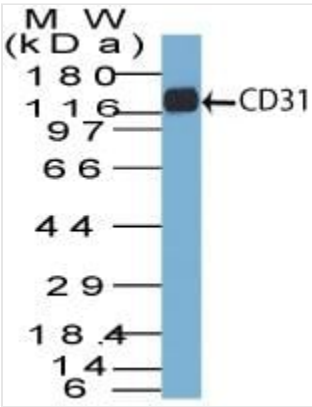
CATALOG # AAA78451	HOST Mouse	REACTIVITY Human	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

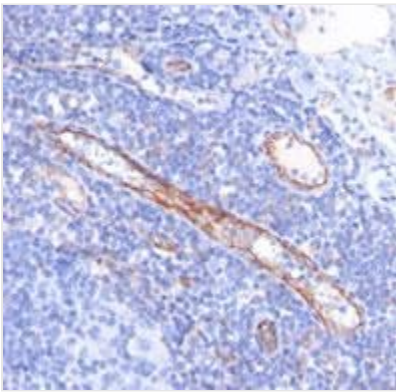
CD31; Monoclonal Antibody; Monoclonal Antibody to CD31 (Clone: C31.7); EndoCAM; GPIIA⁺; PECA1; anti-CD31 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	C31.7
Purity/Purification	Purified Protein G Chromatography
Form/Format	100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Sequence Length	738
Applicable Applications for anti-CD31 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Antigen	CD31
Immunogen Information	Human recombinant CD31 protein was used as immunogen for this antibody.
Conjugation	Unconjugated
Preparation and Storage	Store the antibody at 4 degree C; stable for 6 months. For long-term storage; store at -20 degree C. Avoid repeated freeze and thaw cycles.



WB (Western Blot)
Fig: 2 Western blot analysis of CD31. Anti-CD31 antibody (Clone: C31.7) was used at 1 ug/ml in THP-1 lysate.



FCM/FACS (Flow Cytometry)
Fig: 1 Immunohistochemical analysis of CD31 in human Angiosarcoma using CD31 antibody (Clone: C31.7) at 1: 100 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-CD31 antibody	CD31 (PECAM-1, or platelet endothelial cell adhesion molecule-1) is a surface protein expressed by endothelial cells, monocytes, platelets, granulocytes, and lymphocyte subsets, and makes up a large portion of endothelial intercellular junctions. CD31 is a member of the immunoglobulin superfamily and is likely involved in leukocyte migration, angiogenesis, and integrin activation. Reports indicate that CD31 interacts with CD38 and is involved in cellular interactions resulting in wound healing and angiogenesis. Expression of CD31 on CD4+ T lymphocytes, helps to control T lymphocyte activation, because in the absence of CD31, T cells have a greater propensity to become activated, resulting in increased susceptibility to become apoptotic. This impact of CD31 loss becomes most pronounced during severe, inflammatory, and immunological stresses such as those caused by systemic Salmonella infection. This identifies a novel role for CD31 in regulating CD4 T homeostasis. This monoclonal antibody recognizes a 100kDa glycoprotein in endothelial cells and 130 kDa in platelets. This antibody reacts with endothelial cells in normal tissues and in benign and malignant proliferations. In cryostat sections and blood smears the antibody also stains megakaryocytes, platelets and occasionally plasma cells. It reacts weakly with mantle zone B cells, peripheral T cells, and neutrophils. Antibody to CD31 is of value in the study of benign and malignant vascular tumors. Staining for CD31 has also been used to measure angiogenesis, which reportedly predicts tumor recurrence.
Product Categories/Family for anti-CD31 antibody	Cancer Marker

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; Q9NQTO; A8K3S7; D3DU31
Molecular Weight	81,378 Da
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

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-antibody-clone-c31-7-western-blot-immunohistochemistry-elisa/78451>