Product Name: CD31 Mouse Monoclonal Antibody
Catalog #: AMM80589

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	IHC,ICC,ELISA
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	/

Antigen Information

|	
Gene Name	CD31
Alternative Names	CD31; PECAM-1; PECAM1
Gene ID	5175.0
SwissProt ID	P16284
Immunogen	Purified recombinant fragment of human CD31 expressed in E. Coli.

Background

CD31, also known as platelet endothelial cell adhesion molecule 1 (PECAM1), is a type I integral membrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors.It is constitutively expressed on the surface of endothelial cells, and concentrated at the junction between them. The antibody reacts with the murine form of the Platelet-Endothelial Cell

Adhesion Molecule. The reactivity of the antibody is restricted to the isoform of the molecule that is selectively expressed by endothelial cells.The antigen is predominantly present at the lateral borders of endothelial cells as described for human PECAM-1.It is also weakly expressed on many peripheral lymphoid cells and platelets.CD31 has been used to measure angiogenesis in association with tumor recurrence. Other studies have also indicated that CD31 and CD34 can be used as markers for myeloid progenitor cells and recognize different subsets of myeloid leukemia infiltrates (granular sarcomas).

Research Area

Image Data
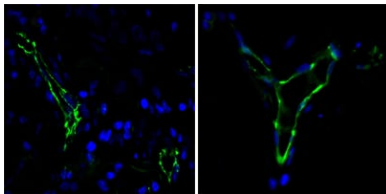
Immunofluorescence analysis of paraffin-embedded human lung cancer(left) and breast cancer(right) cells using CD31 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.
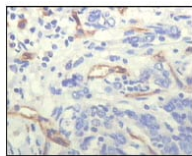
Immunohistochemical analysis of paraffin-embedded human lung cancer (A), lymphonodus tissue (B) and breast cancer (C), showing cytoplasmic localization of vascular endothelial cells using CD31 mouse mAb with DAB staining.
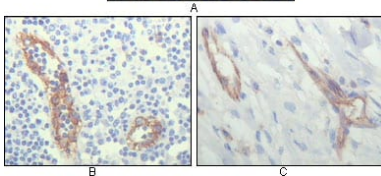
Immunohistochemical analysis of paraffin-embedded human placenta using CD31 mouse mAb.