



CD31 Mouse Monoclonal Antibody

E10-20131

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

Catalog Number: E10-20131

Amount: 100µg/100µl

Clone Number: 2F7B2

Species: Mouse IgG1

Aliases: CD31; PECAM-1; PECAM1

Entrez Gene: 5175

Immunogen: Purified recombinant fragment of human CD31 expressed in E. Coli.

Storage: Store at 4°C, for long term storage, store at -20°C

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, IHC, IF, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB. 1/500 - 1/2000, IHC 1/200 - 1/1000, IF 1/200 - 1/1000, ELISA. Propose dilution 1/10000.

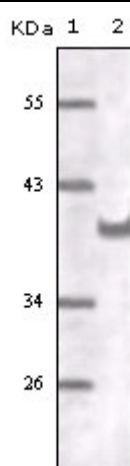


Figure 1. Western blot analysis using CD31 mouse mAb against truncated CD31 recombinant protein.

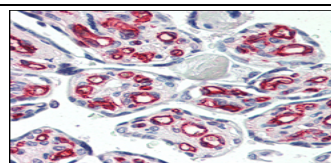


Figure 3. Immunohistochemical analysis of paraffin-embedded human placenta using CD31 mouse mAb.

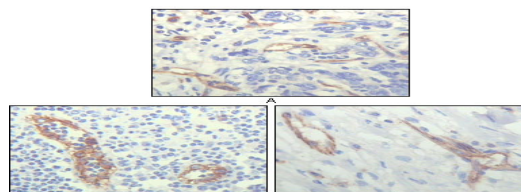


Figure 2. Immunohistochemical analysis of paraffin-embedded human lung cancer (A), lymphonodus tissue (B) and breast cancer (C), showing cytoplasmic localization of vascular endothelial cells using CD31 mouse mAb with DAB staining.

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