

CD31 [D8V9E] - 152Sm

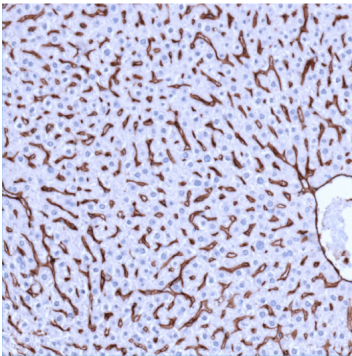
Catalog: 715202

Clone: [D8V9E]

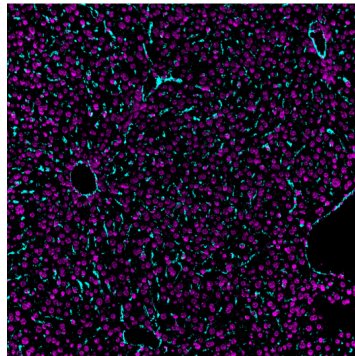
Isotype: Rabbit IgG

Reactivity: Mouse*

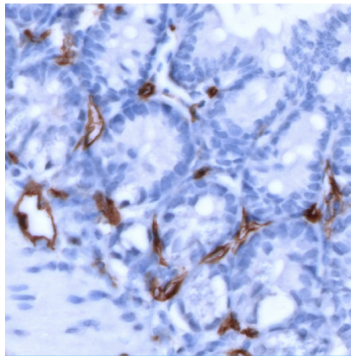
Application: MIBI-FFPE

Storage: Supplied in antibody stabilizer with 0.05% sodium azide. Store at 4°C


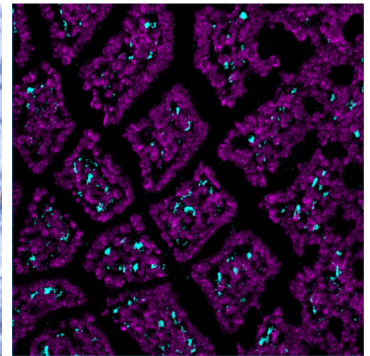
IHC: CD31 staining of FFPE mouse liver



MIBI: CD31 staining (cyan) of FFPE mouse liver, costained with dsDNA (magenta)



IHC: CD31 staining of FFPE mouse ileum



MIBI: CD31 staining (cyan) of FFPE mouse ileum, costained with dsDNA (magenta)

Background

CD31, also known as platelet endothelial cell adhesion molecule-1 (PECAM-1), plays roles in leukocyte transmigration, angiogenesis, and integrin activation. Specifically, CD31 is highly expressed at endothelial cell-cell junctions, functioning as an adhesion protein to maintain endothelial cell junctional integrity and restore the vascular permeability barrier following inflammatory or thrombotic challenges. The expression of CD31 on endothelial cells makes it a useful marker of the vasculature within the tumor. CD31 can also be found on platelets, monocytes, and granulocytes.

Validation

Each lot of conjugated antibody is quality control tested by staining tissue following the MIBI Staining Protocol optimized for the applicable tissue format with subsequent MIBIScope analysis of stained tissue microarray using the appropriate positive and negative tissue field of views. These results are pathologist verified.

Recommended Usage

Mouse FFPE Tissue: 1:100 dilution. For optimal results, the antibody should be titrated for each desired application.

References

Lertkiatmongkol P, Liao D., Mei H., Hu Y., Newman P.J. Endothelial functions of platelet/endothelial cell adhesion molecule-1 (CD31). *Curr Opin Hematol.* 2016; 23(3):253-9.

* Conjugate tested on mouse FFPE tissue.