IONPATH

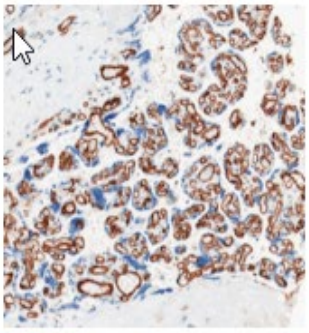
TECHNICAL DATA SHEET

CD31 (EP3095) – 152Sm

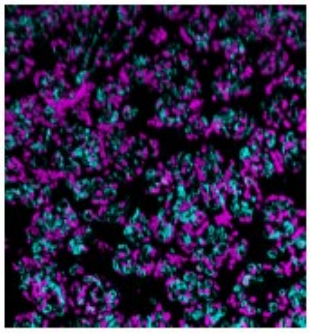
Catalog: 715201 **Clone:** EP3095 **Isotype:** Rabbit IgG

Reactivity: Human* **Application:** MIBI-FFPE

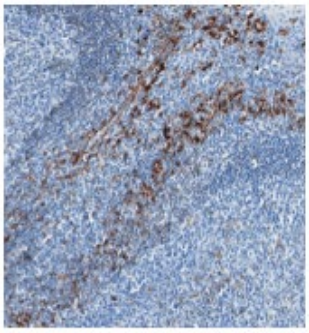
Storage: Supplied in antibody stabilizer with 0.05% sodium azide. Store at 4°C.



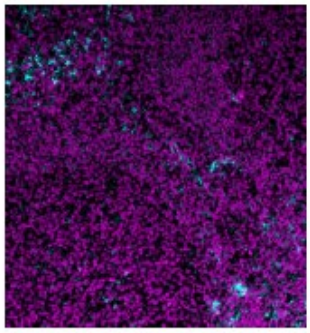
IHC: CD31 staining of FFPE human placenta



MIBI: CD31 staining (cyan) of FFPE human placenta, costained with dsDNA (magenta)



IHC: CD31 staining of FFPE human tonsil



MIBI: CD31 staining (cyan) of FFPE human tonsil, 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 challenge. 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 using the appropriate positive and negative tissue field of views. These results are pathologist verified.

Recommended Usage Human FFPE: 1:100 dilution. For optimal results, the antibody should be titrated for each desired application.

References

1. 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 human and mouse FFPE tissue.

Technical Support
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