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DATA SHEET

Rabbit Anti-CD31 (PECAM-1) [EP78]: RM0037, RM0037RTU7

Intended Use: For Research Use Only

Description: CD31, also known as PECAM-1, is a 130 kDa integral membrane glycoprotein found on the surface of endothelial cells, platelets and some hematopoietic cells. The antibody labels endothelial cells of arteries, arterioles, venules, veins, and non-sinusoidal capillaries in various tissues. CD31 is the most sensitive and specific endothelial cell marker. It is useful for detection of tumors with endothelial origin. In addition, CD31 has been used to identify vascular invasion of tumors, and assessment of angiogenesis which is a prognostic marker for many types of cancer.

Specifications

Clone:	EP78
Source:	Rabbit
Isotype:	IgG
Localization:	Membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

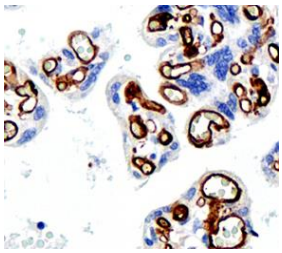
Package:

Description	Catalog No.	Size
CD31 (PECAM-1) Concentrated	RM0037	1 ml
CD31 (PECAM-1) Prediluted	RM0037RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Placenta, angiosarcoma
Concentrated Dilution:	50-200
Pretreatment:	Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human placenta stained with anti-CD31 using DAB

References:

1. Hypoxia promotes glioma-associated macrophage infiltration via periostin and subsequent M2 polarization by upregulating TGF-beta and M-CSFR. Guo X, et al. Oncotarget 7:80521-80542, 2016.
2. Enhancement of Ischemic Wound Healing by Spheroid Grafting of Human Adipose-Derived Stem Cells Treated with Low-Level Light Irradiation. Park IS, et al. PLoS One 10:e0122776, 2015.
3. Utility of a human-mouse xenograft model and in vivo near-infrared fluorescent imaging for studying wound healing. Int Wound J 12:699-705, 2015.
4. Inhibition of Notch signaling alters the phenotype of orthotopic tumors formed from glioblastoma multiforme neurosphere cells but does not hamper intracranial tumor growth regardless of endogene Notch pathway signature. Kristoffersen K, et al Cancer Biol Ther 15:862-77, 2014.

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