Product datasheet   MONX11145

MONOSAN®

Mouse anti-CD31 (PECAM-1), clone JC70A (monoclonal)
Clone no.   JC70A   MONXtra

Product name	Mouse anti-CD31 (PECAM-1), clone JC70A (monoclonal)
Host	Mouse
Applications	IHC-P (1:100)
Species reactivity	human
Conjugate	-
Immunogen	Cell membrane preparation from the spleen of a patient with hairy cell leukemia.
Isotype	IgG1
Clonality	Monoclonal
Clone number	JC70A
Size	1ml
Concentration	Greater than or equal to 31 mg/L
Format	-
Storage buffer	Tissue culture supernatant with sodium azide
Storage until expiry date	2-8°C

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Additional info   CD31 antigen (PECAM-1) is a single chain transmembrane glycoprotein with a molecular weight of 130 to 140 kD. The CD31 molecule is expressed on the surface of platelets, monocytes, granulocytes, B cells and at the endothelial intracellular junction. The molecule has an extracellular domain that contains six Ig-like homology units of C2 subclass, typical of cell to cell adhesion molecules. This domain mediates endothelial cell to cell adhesion, plays a role in endothelial contact and may serve to stabilize the endothelial cell monolayer. The CD31 molecule also has a cytoplasmic domain with potential sites for phosphorylation after cellular activation. The properties of CD31 antigen suggest that it is involved in interactive events during angiogenesis, thrombosis and wound healing. Angiogenesis is essential for tumor growth and metastases.

References   1.   DeYoung BR et al. Journal of Clinical Pathology 1995; 22: 215-222
                                2   Parums DV et al. Journal of Clinical Pathology 1990; 43: 752-757
                                3.   Fox SB et al. Journal of the National Cancer Institute 1997; 89: 1044-1049
                                4.   Engel CJ et al. American Journal of Surgical Pathology 1996; 20: 1260-1265
                                5.   Giatromanolaki A et al. Journal of Pathology 1996; 179: 80-88

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