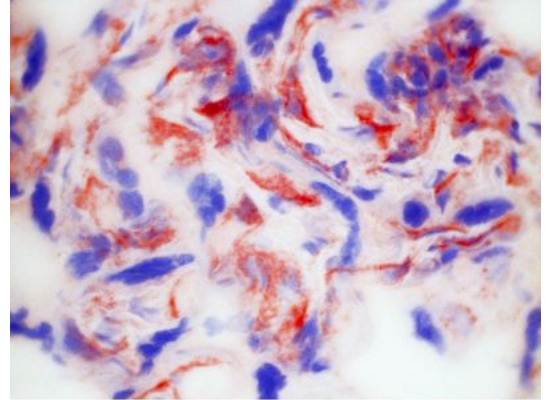


BM4057B**Monoclonal Antibody to Endothelial Cells - Biotin**

Alternate names:	Endothelial Cell marker
Quantity:	0.2 mg
Background:	The antigen is found in variable numbers on freshly isolated umbilical vein endothelial cells (HUVECs). Antigen expression on cultured HUVECs is dependent on the culture conditions. Best results were obtained (40 - 70% pos.) by daily renewal of FCS containing medium supplemented with endothelial cell conditioned supernatant whereas commercially available endothelial cell media apparently have no influence on the antigen expression.
Host / Isotype:	Rat / IgG2a
Clone:	1F10
Immunogen:	Cultured HUVECs
Format:	State: Lyophilized affinity purified Ig fraction Buffer System: Phosphate buffered saline pH 7.2 Preservatives: 0.01% thimerosal Stabilizers: 10 mg/ml bovine serum albumin Label: Biotin Reconstitution: Reconstitute by adding 0.5 ml distilled water.
Applications:	Immunohistochemistry on Frozen sections: 2 µg/ml (1:200). <i>Positive control: Human placenta.</i> Does not react on routinely processed paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes an antigen on human continuous blood endothelial cells which are fully differentiated. The antibody staining is restricted to endothelial cells and does not stain in any other cell in tissues or in peripheral blood. On sinusoidal endothelial cells of the liver or lymphatic organs the antigen is inconsistently expressed or absent.
Species Reactivity:	Tested: Human. Negative on Mouse.
Storage:	Store lyophilized at 2-8°C. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Goerdts S, Steckel F, Schulze-Osthoff K, Hagemeyer HH, Macher E, Sorg C. Characterization and differential expression of an endothelial cell-specific surface antigen in continuous and sinusoidal endothelial, in skin vascular lesions and in vitro. <i>Exp Cell Biol.</i> 1989;57(4):185-92. PubMed PMID: 2599260.

Pictures:

Immunohistochemistry on frozen sections on Human placenta with Clone 1F10



Distribution of 1F10 antigen in normal and tumor tissues

Healthy Tissues			Biopsies (n)	1F10 Staining	Diseased Tissues			Biopsies (n)	1F10 Staining	
Spleen	Continuous EC	5	+++	Stomach CA	Stromal EC	10	+++	Tumor cells	0	
	Sinusoidal EC		0							
Liver	Continuous EC	3	+++	Mammary CA	Stromal EC	3	+++	Tumor cells	0	
	Sinusoidal EC		0/(+)							
Kidney	Continuous EC	2	+++	Acroangio-dermatitis	New vessel EC	4	+++	New vessel EC	3	
	Glomerular EC		+++		Angioma senile	New vessel EC	3		+++	
Skin	Continuous EC	4	+++	Granuloma pyogenicum	New vessel EC	4	+++	Vascular slit cells	0/(+)	
	Lymphatic EC		0/(+)		ADS-Kaposi's sarcoma	Vascular slit cells	3		0/(+)	
						Spindle cells			0/(+)	
Lung		1	+++	Classical Kaposi's sarcoma	Vascular slit cells	1	(+)	Spindle cells	0/(+)	
Myocardium		2	+++							
Thymus	Cortex EC	2	+++	Hemangio-sarcoma	Stromal EC	1	+++	Tumor cells	0	
	Medullary EC		+++							
Placenta		3	+++							