

Product datasheet for **BM4057**

Endothelial Cells Rat Monoclonal Antibody [Clone ID: 1F10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1F10
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Frozen sections: 2 µg/ml (1:100); Suggested positive control: Human placenta. Antigen Distribution: The antigen is found in variable amounts on freshly isolated isolated HUVE cells. Antigen expression on cultured HUVEC 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 commercial available specific endothelial cell media have no influence on the antigen expression (see Table 1).
Reactivity:	Human
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Cultured HUVECs.
Specificity:	The monoclonal antibody 1F10 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 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. The antigen is an SDS sensitive 250kD surface protein as determined by gel filtration. Specific to human continuous endothelial cells, does not react with mouse antigen, other species unknown.
Formulation:	PBS, pH 7.2 containing 10 mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative. State: Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with 0.5 ml distilled water.
Concentration:	0.2 mg/ml



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Purification: Affinity A chromatography.

Conjugation: Unconjugated

Storage: Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer.
Do not freeze working dilutions
Avoid repeated freezing and thawing.

Stability: Shelf life: One year from despatch.

Synonyms: Endothelial Cell marker

Product images:

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

Table 1. Distribution of 1F10 antigen in normal and tumor tissues.