



## Peninsula Laboratories, LLC

A Member of the Bachem Group

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### Biotinylated Monoclonal Antibody to Human Endothelial Cells Marker For Fully Differentiated Endothelial Cells

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.

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<b>Product Number:</b>	T-1124
<b>Clone:</b>	1F10
<b>Host species, isotype:</b>	Rat IgG2a
<b>Quantity:</b>	200µg
<b>Format:</b>	Affinity purified,biotinylated lyophilized  Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C  Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC).  <b>Approximate working dilution for IHC:</b> Frozen sections: 1µg/ml (1:400) Paraffin sections: does not react on routinely processed paraffin sections.  Optimal dilutions should be determined by the end user. Suggested positive control: Human placenta.
<b>Immunogen:</b>	Cultured HUVECs.
<b>Antigen, epitope:</b>	The antigen and epitope have not been further characterized.

**Antigen distribution:** **Isolated cells:** The antigen is found in variable numbers on freshly isolated umbilical vein endothelial cells (HUVECs). Antigen expression on cultured HUVECs is dependent on the



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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.

## 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	+++
	Sinusoidal EC		0		Tumor cells		0
Liver	Continuous EC	3	+++	Mammary CA	Stromal EC	3	+++
	Sinusoidal EC		0/(+)		Tumor cells		0
Kidney	Continuous EC	2	+++	Acroangio-dermatitis	New vessel EC	4	+++
	Glomerular EC		+++		Angioma senile		New vessel EC
Skin	Continuous EC	4	+++	Granuloma pyogenicum	New vessel EC	4	+++
	Lymphatic EC		0/(+)		AIDS-Kaposi's sarcoma		Vascular slit cells
Lung		1	+++		Spindle cells		0/(+)
Myocardium		2	+++	Classical Kaposi's sarcoma	Vascular slit cells	1	(+)
Thymus	Cortex EC	2	+++		Spindle cells		0/(+)
	Medullary EC		+++	Hemangio-sarcoma	Stromal EC	1	+++
Placenta		3	+++		Tumor cells		0

### Specificity:

**Human:** continuous endothelial cells.

**Other:** negative in mouse negative, other species not tested.

### Selected references

Goerdts, S. et al.: Characterization and differential expression of an endothelial-specific antigen in continuous and sinusoidal endothelia, in skin vascular lesions and in vitro. *Exp Cell Biol* 57: 185-192 (1989).

For in vitro research only. Caution: this product contains thimerosal, a poisonous and hazardous substance.