

Datasheet: 4108-2108

Description:	RAT ANTI HUMAN ENDOTHELIAL CELLS (FULLY DIFFERENTIATED)
Specificity:	ENDOTHELIAL CELLS (FULLY DIFFERENTIATED)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1F10
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen (1)	▪			1/50 - 1/200
Immunohistology - Paraffin		▪		

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Human
Species Cross Reactivity	Does not react with:Mouse
Product Form	Purified IgG - lyophilised
Reconstitution	With 0.5 ml sterile distilled water
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal, 1% Bovine Serum Albumin.
Immunogen	Cultured HUVECs.
RRID	AB_620375

Specificity **Rat anti Human Endothelial cells antibody, clone 1F10** recognizes a ~150 kDa antigen present on fully differentiated continuous blood endothelial cells. Expression is low and inconsistent on

sinusoidal endothelial cells of the liver and dermal lymphatic endothelia. Expression is absent on splenic sinusoidal endothelial cells ([Goerd et al. 1989](#)).

Immunohistochemical studies indicate that the antigen recognized by Rat anti Human Endothelial cells antibody, clone 1F10 is strongly up-regulated in the muscularis propria of patients with Chron's disease, suggesting a possible role in the maintenance of chronic inflammation in this condition ([Lügering et al. 1995](#)).

Histology Positive Control Tissue

Human placenta

References

1. Goerd, S. *et al.* (1989) Characterization and differential expression of an endothelial cell-specific surface antigen in continuous and sinusoidal endothelial, in skin vascular lesions and *in vitro*. [Exp Cell Biol. 57: 185-92.](#)
 2. Goerd, S. *et al.* (1991) Identification of a novel high molecular weight protein preferentially expressed by sinusoidal endothelial cells in normal human tissues. [J Cell Biol. 113: 1425-37.](#)
 3. Lügering, N. *et al.* (1995) Monoclonal antibody 1F10 immunoreactivity in inflammatory bowel disease: a new marker specific only for continuous endothelial cells. [Eur J Gastroenterol Hepatol. 7: 777-81.](#)
 4. Goerd, S. *et al.* (1993) Inducible expression of MS-1 high-molecular-weight protein by endothelial cells of continuous origin and by dendritic cells/macrophages *in vivo* and *in vitro*. [Am J Pathol. 142: 1409-22.](#)
 5. Slowik, M.R. *et al.* (1993) Tumor necrosis factor activates human endothelial cells through the p55 tumor necrosis factor receptor but the p75 receptor contributes to activation at low tumor necrosis factor concentration. [Am J Pathol. 143: 1724-30.](#)
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Storage

Prior to reconstitution store at +4°C.
After reconstitution store at -20°C.
Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10095 available at:
10095: <https://www.bio-rad-antibodies.com/uploads/MSDS/10095.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (STAR72...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®800

'M363073:200528'

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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