

**MONOCLONAL ANTIBODY TO  
MOUSE PECAM-1 (CD31)  
Clone MEC7.46**



---

<b>Catalog nr</b>	HM1013 (lot number and expiry date are indicated on the label)
<b>Description</b>	The antibody reacts with the mouse form of the Platelet-Endothelial Cell Adhesion Molecule. The reactivity of the antibody is restricted to the isoform of the molecule that is selectively expressed by endothelial cells. The antibody precipitates a 130 kDa molecule present on the membrane of endothelial cell presents on all mouse blood vessels both in normal and inflamed or tumor tissues. The antigen is predominantly present at the lateral borders of endothelial cells as described for human PECAM-1.
<b>Species</b>	Rat IgG <sub>1</sub>
<b>Formulation</b>	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
<b>Application</b>	The antibody can be used for studies on mouse endothelium both in vitro and in vivo studies. Minimal reactivity is seen on spleen and bone marrow megakaryocytes. Furthermore the antibody is useful for staining of cells in suspensions for flow cytometric studies, for immuno precipitation, immuno assay and for immunohistology staining of frozen tissue sections.
<b>Use</b>	For immunohistology and flow cytometry dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10. Before use in biological assays, the product must be filter sterilized and depending on the concentration to be used dialyzed against culture medium to remove the sodium azide added. Please inquire for availability of azide free solutions.
<b>Storage and stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hbt is not responsible for any patent infringements that might result with the use of or derivation of this product.
<b>References</b>	1. Dong, Q et al; A general strategy for isolation of endothelial cells from murine tissues. Characterization of two endothelial cell lines from the murine lung and subcutaneous sponge implants. <i>Arterioscler Thromb Vasc Bio</i> 1997, <i>17</i> : 1599 2. Vecchi, A et al; Monoclonal antibodies specific for endothelial cells of mouse blood vessels. Their application in the identification of adult and embryonic endothelium. <i>Eur J Cell Biol</i> 1194, <i>63</i> : 247 3. Xu, Q et al; Circulating progenitor cells regenerate endothelium of vein graft atherosclerosis, which is diminished in ApoE-deficient mice. <i>Circ Res</i> 2003, <i>93</i> : e76
<b>Also available</b>	HM1014                      Biotinylated monoclonal antibody against Mouse PECAM-1 (CD31), clone MEC7.46