

**MONOCLONAL ANTIBODY TO
MOUSE CD34
Clone MEC14.7**



Catalog nr	HM1015 (lot number and expiry date are indicated on the label)
Description	The monoclonal antibody MEC14.7 reacts with mouse CD34, a protein present on endothelial cells and hematopoietic progenitor cells. The antibody recognizes a neuraminidase sensitive epitope on endothelium in vivo, particularly on small vessels and neoformed capillaries and developing vascular structures in embryonal structures. Furthermore the antibody MEC14.7 reacts with hematopoietic progenitors particularly of myelomonocytic colony forming cells.
Species	Rat IgG _{2a}
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The monoclonal antibody MEC14.7 can be used for identification and characterization of capillary endothelial cells. Furthermore the antibody is useful for isolation and characterization of hematopoietic progenitor cells. In summary the monoclonal antibody MEC14.7 can be used for ELISA, immunofluorescence, immunohistochemistry on frozen and paraffin sections, Western blotting, immunoprecipitation, flow cytometry and cell separation.
Use	For immunohistology, flow cytometry and Western blotting 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.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
Precautions	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.
References	<ol style="list-style-type: none">1. Garlanda, C et al; Characterization of MEC14.7, a new monoclonal antibody recognizing mouse CD34, a useful reagent for identifying and characterizing blood vessels and hematopoietic precursors. <i>Eur J of Cell Biology</i> 1997, 73: 3682. 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, 17: 15993. Solberg, H et al; The murine receptor for urokinase-type plasminogen activator is primarily expressed in tissues actively undergoing remodeling. <i>J Histochem Cytochem</i> 2001, 49: 2374. Solberg, H et al; A functional overlap of plasminogen and MMPs regulates vascularization during placenta development. <i>Development</i> 2003, 130: 4439