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MOUSE ANTI-ENDOTHELIAL CELLS (CD146) BIOTINYLATED MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB16985B

LOT NUMBER:

QUANTITY: 100 μg

CONCENTRATION: 1 mg/mL

SPECIFICITY: P1H12 reacts specifically with CD146 {MCAM, MUC18}.
In blood and marrow P1H12 reacts only with endothelial cells, and has been used to detect circulating endothelial cells in human, dogs, rabbits and mouse samples. It positively stains normal, primary HUVEC and MVEC cultures and the endothelial cells of all vessels in normal frozen sections of human skin, intestine, ovary tonsil, lymph node, lung, and kidney. It does not stain carcinoma cell lines HT-29 and COLO205, and M21, the T cell lines Jurkat and HuT78, fibroblasts, HL-60 or CHO cells, or EBV-transformed B cell lines, although it expected that CD146 expression is present in many tumor lines. P1H12 does not stain normal monocytes, granulocytes, red cells, platelets, T cells or B cells from marrow or peripheral blood; nor does it detect marrow megakaryocytes or the megakaryoblast line HU3. The peripheral blood cells that do stain with P1H12 also are positive for both von Willebrand Factor (vWF) and thrombomodulin (the combined expression of which is limited to endothelium), and they stain for flt and flk. In recent testing, melanoma A2058, SKMEL.3 and A375.S2 are positive, while murine melanoma M3 is negative. One smooth muscle line (HISM) was positive and one negative (TIGHA-VSMC). Human blood lymphoctes are negative with or without prior stimulation. **This biotinylated format is particularly useful for studies on mouse tissues when combined with streptavidin-FITC {SA103}.**

IMMUNOGEN: Immunization of mice with HUVEC

ISOTYPE: IgG1

CLONE NAME: P1H12

APPLICATIONS: Immunocytochemistry: 1-10 μg/mL
Immunohistochemistry: 1-10 μg/mL (light paraformaldehyde fixation)
Immunoprecipitation: 1-10 μg/mL
ELISA: 1-10 μg/mL
Facs Analysis: 1-10 μg/mL
Optimal working dilutions must be determined by end user.

SPECIES REACTIVITY: Detects circulating endothelial cells in human, dog, rabbit & mouse.

FORMAT: Purified immunoglobulin.

PRESENTATION: Liquid in 0.02M PBS, 0.25M NaCl, pH=7.6, 15 mg/nL BSA containing 0.1% sodium azide as a preservative.

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STORAGE: Store at 2-8°C for up to 12 months.

REFERENCES:

1. Solovey, A. et al. (1997). *New England Journal of Medicine* **337:** 1584.
2. Gui, et al. (1992). *Blood*, *Supplement Abstract* #**697**
3. St. Croix, et al. (2000). *Science* **289:** 1197-1202.
4. Chukwuemeka I., et. al.(2000) *Biology of Blood and Marrow Transplantation* **6**:30-308.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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