

PE/Cy5 anti-human CD146

Catalog # / Size: 2405185 / 25 tests
2405190 / 100 tests

Clone: P1H12

Isotype: Mouse IgG1, κ

Immunogen: Cultured human umbilical cells

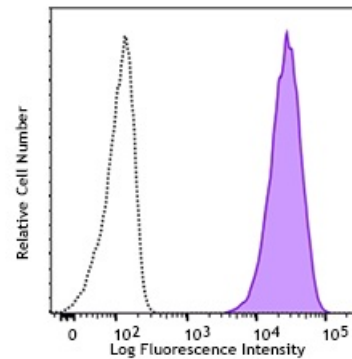
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: HCDM listed

Concentration: Lot-specific



Human cervical cancer cell line, HeLa, was stained with CD146 (clone P1H12) PE/Cy5 (filled histogram) or mouse IgG1, κ PE/Cy5 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.

Application Notes: Additional reported applications (for the relevant formats of this clone) include: Western blotting³ and IHC^{1,5}.

- Application References:**
1. Solovey A, et al. 1997. *N. Engl. J. Med.* 337:1584. (FC, IHC)
 2. Lamerato-Kozicki AR, et al. 2006. *Exp. Hematol.* 34:870. (FC)
 3. Balint K, et al. 2005. *J. Clin. Invest.* 115:3166. (WB)
 4. Neskey DM, et al. 2008. *J. Exp. Clin. Cancer Res.* 27:61. (ELISA)
 5. Kamstock D, et al. 2006. *Cancer Gene Therap.* 13:306. (IHC)

Description: CD146 is a 118 kD integral transmembrane glycoprotein that is also known as MUC18, S-Endo, MCAM, and Mel-CAM (melanoma cell adhesion molecule). It belongs to the immunoglobulin superfamily. CD146 is expressed on melanoma cells, epithelial cells, endothelial cells, fibroblasts, activated T cells, multipotent mesenchymal stromal cells, and activated keratinocytes. CD146 mediates heterophilic cell adhesion and regulates monocyte transendothelial migration. The ligand of CD146 remains to be identified.

- Antigen References:**
1. Pickl WF, et al. 1997. *J. Immunol.* 158:2107.
 2. Weninger W, et al. 2000. *J. Invest. Dermatol.* 115:219.
 3. Sorrentino A, et al. 2008. *Exp. Hematol.* 36:1035.
 4. Bardin N, et al. 2009. *Arterioscler. Thromb. Vasc. Biol.* 29:746.