SONY

# Product Data Sheet

## PE/Cyanine5 anti-human CD146

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

**Clone:** P1H12

**Isotype:** Mouse IgG1, κ

**Immunogen:** Cultured human umbilical cells

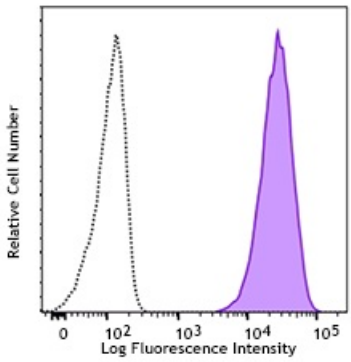
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cy5 under optimal conditions.

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

**Workshop Number:** HCDM listed

**Concentration:** Lot-specific

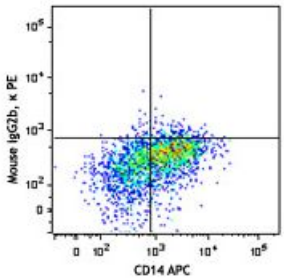



Human cervical cancer cell line, HeLa, was stained with CD146 (clone P1H12) PE/Cy5 (filled histogram) or mouse IgG1, κ PE/Cy5 isotype control (open histogram).

## 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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.




**Application Notes:** Additional reported applications (for the relevant formats of this clone) include: Western blotting[3] 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. (Other)
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.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Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

**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.

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