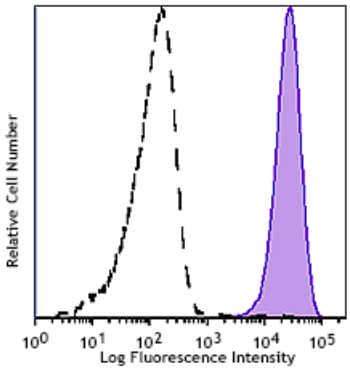
SONY

Product Data Sheet

APC/Cyanine7 anti-human CD146

Catalog # / Size:	2405210 / 100 tests 2405205 / 25 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 APC/Cyanine7 under optimal conditions.
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 anti-human CD146 APC/Cyanine7 (filled histogram) (clone P1H12) or mouse IgG1, κ APC/Cyanine7 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. It is recommended that the reagent be titrated for optimal performance for each application.
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. (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.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com