SONY

Product Data Sheet

Alexa Fluor® 488 anti-human CD146

Catalog # / Size: 2405095 / 25 tests
2405100 / 100 tests

Clone: P1H12

Isotype: Mouse IgG1, κ

Immunogen: Cultured human umbilical cells

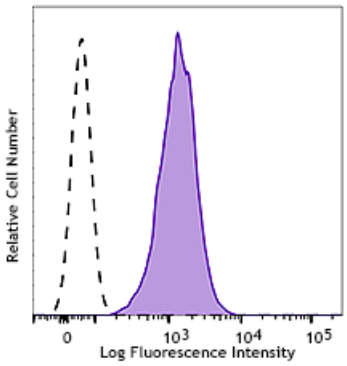
Reactivity: Human, Mouse, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa FluorÂ® 488 under optimal conditions. The solution is free of unconjugated Alexa FluorÂ® 488.

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) Alexa Flour® 488 (filled histogram) or mouse IgG1, κ Alexa Flour® 488 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.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

Application Notes: Additional reported applications (for the relevant formats of this clone) include: Western blotting[3] and IHC[1,5].

Application 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.

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.

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