

Brilliant Violet 510™ anti-human CD146

Catalog # / Size: 2405110 / 100 tests
2405105 / 25 tests

Clone: P1H12

Isotype: Mouse IgG1, κ

Immunogen: Cultured human umbilical cells

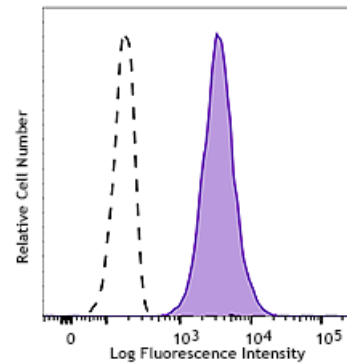
Reactivity: Human, Mouse, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

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) Brilliant Violet 510™ (filled histogram) or mouse IgG1, κ Brilliant Violet 510™ 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.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats of this clone) include: Western blotting³ 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.