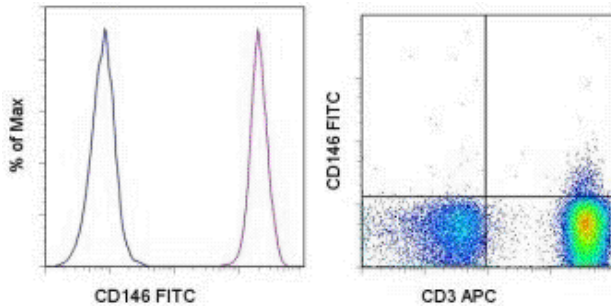


## Anti-CD146 FITC

**Catalog Number:** 11-1469

**Also Known As:** Melanoma Cell Adhesion Molecule, MUC18, Mel-CAM, EndoCAM

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Left: Staining of Human Umbilical Vein Endothelial Cells (HUVEC) with Mouse IgG1 K Isotype Control FITC (cat. 11-4714) (blue histogram) or Anti-CD146 FITC (purple histogram). Right: Staining of normal human peripheral blood cells with Anti-Human CD3 APC (cat. 17-0038) and Anti-CD146 FITC.

### Product Information

**Contents:** Anti-CD146 FITC


**REF** **Catalog Number:** 11-1469

**Clone:** P1H12

**Concentration:** 5  $\mu$ L (0.25  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**LOT** **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

### Description

The monoclonal antibody P1H12 recognizes CD146 also known as MUC18, s-endo, Endo-CAM and Mel-CAM, which is a member of the Ig superfamily of proteins. The expression of CD146 is found on endothelial cells, bone marrow fibroblasts and some tumors (especially melanoma). Recently mesenchymal stromal cells and endometrial stromal cells have also been shown to express CD146. The presence of CD146 on circulating blood cells have been confined to a subset of T cells rather than circulating endothelial cells, as expression of other endothelial markers (CD31 and CD51/61) is negative. Expression can be found on activated lymphocytes. The protein is heavily glycosylated with more than 50% of the mass from carbohydrates.

The antibody P1H12 has been reported to crossreact to mouse, rabbit, canine, but not rat.

### Applications Reported

This P1H12 antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This P1H12 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells and Human Umbilical Vein Cells (HUVEC). This can be used at 5  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

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Elshal MF, Khan SS, Takahashi Y, Solomon MA, McCoy JP Jr. CD146 (Mel-CAM), an adhesion marker of endothelial cells, is a novel marker of lymphocyte subset activation in normal peripheral blood. *Blood.* 2005 Oct 15;106(8):2923-4 (P1H12, FC, PubMed)

Solovey AN, Gui L, Chang L, Enestein J, Browne PV, Hebbel RP. Identification and functional assessment of endothelial P1H12. *J Lab Clin Med.* 2001 Nov;138(5):322-31. (P1H12, FC, PubMed)

Solovey A, Lin Y, Browne P, Choong S, Wayner E, Hebbel RP. Circulating activated endothelial cells in sickle cell anemia. *N Engl J Med.* 1997 Nov 27;337(22):1584-90. (P1H12, FC PubMed)

### Related Products

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)

17-0038 Anti-Human CD3 APC (UCHT1)

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