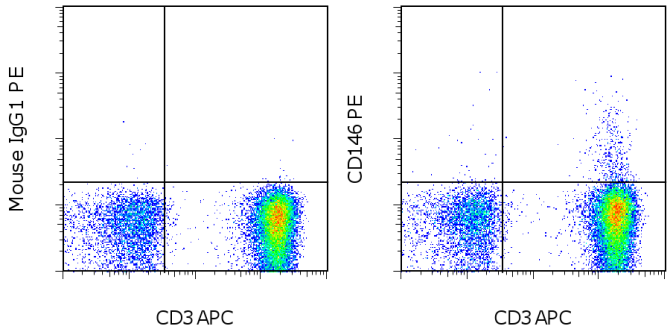
Anti-CD146 PE

Catalog Number: 12-1469
Also known as: Melanoma Cell Adhesion Molecule, MUC18, Mel-CAM, EndoCAM
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD3 APC (cat. 17-0037) and Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-CD146 PE (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-CD146 PE
REF **Catalog Number:** 12-1469
Clone: P1H12
Concentration: 5 uL (0.125 ug)/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. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Lamerato-Kozicki AR, Helm KM, Jubala CM, Cutter GC, Modiano JF. Canine hemangiosarcoma originates from hematopoietic precursors with potential for endothelial differentiation. Exp Hematol. 2006 Jul;34(7):870-8. (P1H12, canine cross-reactivity, PubMed)

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)

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Solovey AN, Gui L, Chang L, Enenstein 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
12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)
17-0037 Anti-Human CD3 APC (OKT3)

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