

CD146 Monoclonal Antibody (P1H12), FITC, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 Tests |
| Species Reactivity | Dog, Human, Mouse, Rabbit |
| Published Species | Human |
| Host/Isotope | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | P1H12 |
| Conjugate | FITC |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA |
| Contains | 0.09% sodium azide |
| Storage Conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2043805 |

| Applications | Tested | Dilution | Published |
|---------------------------|--------|---------------------|----------------|
| Flow Cytometry (Flow) | ✓ | 5 µL (0.25 µg)/test | 5 Publications |
| Immunocytochemistry (ICC) | - | | 1 Publication |
| Immunofluorescence (IF) | - | | 1 Publication |

Product Specific Information

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.

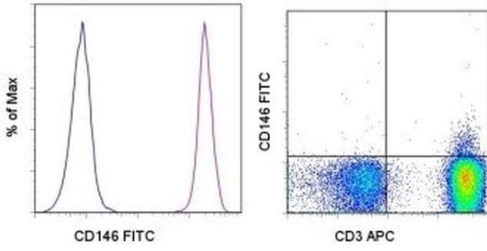
Applications Reported: This P1H12 antibody has been reported for use in flow cytometric analysis.

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 µL (0.25 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 10⁵ to 10⁸ cells/test.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD146 Monoclonal Antibody (P1H12), FITC, eBioscience™



CD146 Antibody (11-1469-42) in Flow

Left: Staining of Human Umbilical Vein Endothelial Cells (HUVEC) with Mouse IgG1 K Isotype Control FITC (Product # 11-4714-42) (blue histogram) or Anti-CD146 FITC (purple histogram). Right: Staining of normal human peripheral blood cells with Anti-Human CD3 APC (Product # 17-0038-42) and Anti-CD146 FITC.

[View more figures on thermofisher.com](http://thermofisher.com)

7 References

Flow Cytometry (5)

Nature communications

Tumor-associated B-cells induce tumor heterogeneity and therapy resistance.

"Published figure using CD146 monoclonal antibody (Product # 11-1469-42) in Flow Cytometry"

Authors: Somasundaram R,Zhang G,Fukunaga-Kalabis M,Perego M,Krepler C,Xu X,Wagner C,Hristova D,Zhang J, Tian T,Wei Z,Liu Q,Garg K,Griss J,Hards R,Maurer M,Hafner C,Mayerhöfer M,Karanikas G,Jalili A,Bauer-Pohl V, Weihsengruber F,Rappersberger K,Koller J,Lang R,Hudgens C,Chen G,Tetzlaff M,Wu L,Frederick DT,Scolyer RA,Long GV,Damle M,Ellingsworth C,Grinman L,Choi H,Gavin BJ,Dunagin M,Raj A,Scholler N,Gross L,Beqiri M,Bennett K, Watson I,Schaidler H,Davies MA,Wargo J,Czerniecki BJ,Schuchter L,Herlyn D,Flaherty K,Herlyn M,Wagner SN

Species
Human

Dilution
Not Cited

Year
2017

Pulmonary circulation

A high-yield isolation and enrichment strategy for human lung microvascular endothelial cells.

"11-1469 was used in Flow cytometry/Cell sorting to describe a protocol to select large quantities of enriched primary human lung microvascular endothelial cells, free from mesenchymal contamination."

Authors: Gaskill C,Majka SM

Species
Human

Dilution
Not Cited

Year
2017

[View more Flow references on thermofisher.com](#)

Immunocytochemistry (1)

Oncology letters

Targeting CD146 in combination with vorinostat for the treatment of ovarian cancer cells.

"11-1469 was used in Immunofluorescence to confirm that the induction of CD146 is a common phenomenon in vorinostat-treated ovarian cancer cells."

Authors: Ma X,Wang J,Liu J,Mo Q,Yan X,Ma D,Duan H

Species
Human

Dilution
Not Cited

Year
2017

Immunofluorescence (1)

Oncology letters

Targeting CD146 in combination with vorinostat for the treatment of ovarian cancer cells.

"11-1469 was used in Immunofluorescence to confirm that the induction of CD146 is a common phenomenon in vorinostat-treated ovarian cancer cells."

Authors: Ma X,Wang J,Liu J,Mo Q,Yan X,Ma D,Duan H

Species
Human

Dilution
Not Cited

Year
2017

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.